

WRITE
COLUMN

			1	2	3	4
1	U 1	TMS4045-30NL (2114-3)	22			
2	U 2	TMS4045-30NL (2114-3)	22			
3	U 3	2532(25L32) (28 PIN SOCKET)	22			
4	U 4	2532(25L32) (28 PIN SOCKET)	22			
5	U 5	MK3880N Z80 CPU (40 PIN SOCKET)	21			
6	U 6	MPD765C (40 PIN SOCKET)	31			
7	U 7	7438	31			
8	U 8	NE527	18		NET OPT	
9	U 9	AM 27\$29	16		NET OPT	
10	U 10	AM 27\$29	16		NET OPT	
11	U 11	AM 27\$29	16		NET OPT	
12	U 12	74LS138	22			
13	U 13	74LS74	25			
14	U 14	74LS74	24, 31			
15	U 15	74LS244	21, 28			
16	U 16	74LS240	19, 31			
17	U 17	74LS240	31			
18	U 18	74LS175	31			
19	U 19	74LS153	31			
20	U 20	7438	31			
21	U 21	7406	10, 25			
22	U 22	74LS273	16		NET OPT	
23	U 23	74LS374	16		NET OPT	
24	U 24	74LS374	16		NET OPT	
25	U 25	74LS82	24, 29			
26	U 26	74LS08	23, 24, 25			
27	U 27	74LS175	28			
28	U 28	74LS125	21, 28, 29			
29	U 29	74LS02	21, 24, 25			
30	U 30	MK3880N (Z80 DMA) (40 PIN SOCKET)	24			
31	U 31					
32	U 32	74LS161	31			
33	U 33	HEADER	21, 25, 31		(SEE PRQ-HA-0573-B)	
34	U 34	74LS32 (7427)	23			
35	U 35					
36	U 36	74LS02	6, 24, 39			
37	U 37	74LS51	31			
38	U 38	74LS06	10, 11		NET OPT	
39	U 39	74LS138	23			
40	U 40	74LS138	23			

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C MN WRITE

			1	2	3	4
		(PINS) PAGE				
		##				
1	U41	898-1-R10K (4116-002-103) DIP		(5)24	(8)27	(10,11,12,13,14)21 (15)24
2	U42	75189 (1489)	25			
3	U43	75189 (1489)	25			
4	U44	74L\$157	31			
5	U45	75115	1			
6	U46	74\$112	6			
7	U47	74\$112	6			
8	U48					
9	U49					
10	U50	DM 85\$68N	39			
11	U51	74L\$74	34			
12	U52	74L\$164	34			
13	U53	74L\$169	13	NET OPT		
14	U54	74\$225	14	NET OPT		
15	U55	AM 25L\$252.1	13	NET OPT		
16	U56	74L\$164	13	NET OPT		
17	U57	74L\$74	4,30			
18	U58	74\$225	2			
19	U59	74\$240	2,3,24,25,29			
20	U60	74L\$74	6,29			
21	U61	74L\$74	36			
22	U62	74L\$74	36			
23	U63	74L\$175	35			
24	U64	74\$08	35,36			
25	U65	74L\$164	34			
26	U66	74L\$20	34			
27	U67	SPARE				
28	U68	74L\$166	13	NET OPT		
29	U69	74L\$169	13	NET OPT		
30	U70	9401	13	NET OPT		
31	U71	MC 3417	20			
32	U72	74L\$00	3,21,30,31			
33	U73	MK 3882 280 CTC (28 PIN SOCKET)	25			
34	U74	MK 3884 280 510 (40 PIN SOCKET)	25			
35	U75					
36	U76	75114	1			
37	U77	74L\$27 (7427)	3,6			
38	U78	74L\$153	3			
39	U79	74L\$08	1,5			
40	U80	74L\$74	6			

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Three Rivers Computer

101-1-1015-11 101-1-1015-11

101-1-1015-11 101-1-1015-11

COLUMN WRITE

			1	2	3	4
1	U 81	74 \$374	2			
2	U 82	74L\$74	36			
3	U 83	74L\$148	35			
4	U 84	74\$153	34			
5	U 85	74L\$139	34			
6	U 86	74L\$00	34			
7	U 87	74L\$153	13	NET OPT		
8	U 88	74L\$151	17	NET OPT		
9	U 89	74L\$10	26,29			
10	U 90	74L\$153	1			
11	U 91	9401	1			
12	U 92	74\$04	3,4,6			
13	U 93	9406	3			
14	U 94	9406	3			
15	U 95	74L\$00	35			
16	U 96	74L\$74	35			
17	U 97	74L\$04	34			
18	U 98	74L\$74	14,15	NET OPT		
19	U 99	74L\$08	10,12,13	NET OPT		
20	U 100	74\$10	2,4			
21	U 101	74L\$161	15	NET OPT		
22	U 102	74L\$74	17	NET OPT		
23	U 103	74L\$374	28			
24	U 104	9708	26			
25	U 105	74L\$374	26			
26	U 106	74L\$374	29			
27	U 107	74L\$374	27			
28	U 108	74L\$374	30			
29	U 109	74L\$374	30			
30	U 110	74L\$374	6			
31	U 111	7406	6,21,31			
32	U 112	74L\$244	1			
33	U 113	74\$139	3,4			
34	U 114	HMI-7649-B5546 (AM 27\$29)	3			
35	U 115	HMI-7649-B5546 (AM 27\$29)	3			
36	U 116	HMI-7649-B5546 (AM 27\$29)	3			
37	U 117	74L\$139	35			
38	U 118	74L\$74	35			
39	U 119					
40	U 120	SPARE				

PRQ-PCB-IOB-F

PAGE 4 OF 11

COLUMN WRITE					1	2	3	4
1	U121	74L\$157	13,15	NET OPT				
2	U122	74\$00	11,18					
3	U123	74L\$151	27					
4	U124	75188 (1488)	25					
5	U125	74L\$04	23,27					
6	U126	82\$129(82\$131)(174\$287) (16 PIN SOCKET)	29					
7	U127	9914 (40 PIN SOCKET)	27					
8	U128	74L\$14	1,7					
9	U129	74L\$244	7					
10	U130	74\$157	1					
11	U131	74L\$174	7					
12	U132	74L\$374	4					
13	U133	74L\$273	2					
14	U134	SPARE						
15	U135	74L\$283	3					
16	U136	74\$08	34					
17	U137	74L\$74	15	NET OPT				
18	U138	74L\$04	11,12,15,30					
19	U139	74L\$221	11,25					
20	U140	74L\$74	11	NET OPT				
21	U141	74L\$08	12,15					
22	U142	SPARE						
23	U143	SPARE						
24	U144	CD 4051	26					
25	U145	74L\$74	29					
26	U146	74L\$04	11,12,15,18	NET OPT				
27	U147	SPARE						
28	U148	74L\$175	2					
29	U149	7406	1,2					
30	U150	74L\$08	4,6					
31	U151	SPARE						
32	U152	74\$00	36,37					
33	U153	74\$32	15,31,37,38					
34	U154	74\$00	37,38					
35	U155	74\$32	3,12,15					
36	U156	74\$86	12					
37	U157	74\$74	11	NET OPT				
38	U158	AM261D2 (96\$02)	11	NET OPT				
39	U159	74L\$32	18	NET OPT				
40	U160	74L\$27	15,18	NET OPT				

4/3



COLUMN WRITE

			1	2	3	4
1	U161	74\$32	3,13,15,17			
2	U162	74L\$273	15			
3	U163	74\$112	12	NET OPT		
4	U164	9403	18	NET OPT		
5	U165	9403	18	NET OPT		
6	U166	9403	18	NET OPT		
7	U167	9403	18	NET OPT		
8	U168					
9	U169	74\$74	3,28			
10	U170	74\$174	29			
11	U171	74\$138	30			
12	U172	75161	27			
13	U173	HMI-7649-B5546 (AM 25\$29)	4			
14	U174	74L\$166	4			
15	U175	74L\$670	4			
16	U176	74L\$670	4			
17	U177	74\$283	37			
18	U178	74\$158	37			
19	U179	74\$158	37			
20	U180	74\$189	38			
21	U181	74\$189	38			
22	U182	74\$374	5			
23	U183	74L\$74	12	NET OPT		
24	U184	74L\$21	5			
25	U185	74L\$32 (7427)	5			
26	U186	74L\$374	14	NET OPT		
27	U187	74\$24	4,7,29,39			
28	U188	74L\$244	11,12,14,15,17,29			
29	U189	74\$138	30			
30	U190	75160	27			
31	U191	AM25L\$2521	4			
32	U192	74L\$164	4			
33	U193	74L\$670	4			
34	U194	74L\$670	4			
35	U195	74\$283	37			
36	U196	74\$189	37			
37	U197	74\$189	37			
38	U198	74\$374	37			
39	U199	74\$139	38			
40	U200	74\$374	5			



Three Rivers Computer	
PCB-F-108-E	PCB-F-108-E
RAC	PCB-F-108-E 5 of 11

COLUMN WRITE

			1	2	3	4
1	U201	74LS165	12		NET OPT	
2	U202	9403 (24 PIN SOCKET)	5			
3	U203	9403 (24 PIN SOCKET)	5			
4	U204	9403 (24 PIN SOCKET)	5			
5	U205	9403 (24 PIN SOCKET)	5			
6	U206	SPARE				
7	U207	LM 380	20			
8	U208					
9	U209					
10	U210					
11	U211	74LS124	19			
12	U212	74LS112	↑			
13	U213	MC1741SCPI (LF351)				
14	U214	74LS161				
15	U215	74LS157				
16	U216	74LS221				
17	U217	74LS221	19			
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Three Rivers Computer	
108-F PART LIST	108-F PART LIST
DESIGNED BY: RAC	108-F-PCB-IJB-F
DATE: 11/6/80	PAGE 6 OF 11

CC-COLUMN WRITE®

(PINS) PAGE 11

RESISTOR	VALUE	WATTAGE	QTY
R1	750-85-R220/330 SIP		(2,3,4,5,6) 7 (7) 1
R2	785-1-R1K (4310R-101-102) SIP		(2,3,4) 6 (5) 2 (6) 1 (7,8,9,10) 2
R3	785-1-R1K (4310R-101-102) SIP		(3) 3 (4) 1 (5) 3 (6) 4 (7) 31 (8) 28
R4	785-1-R1K (4310R-101-102) SIP		(3) 15 (4) 14 (5) 13 (6) 12 (7) 11
R5	785-1-R330 (4310R-101-331) SIP		(2,3) 19 (4,5,6,7,8) 31
R6			
R7	785-1-R1K (4310R-101-102) SIP		(2) 37 (3) 36 (4) 34 (5) 25
R8	20K		11
R9	470Ω		11
R10	470Ω		10
R11	68Ω 1 WATT		10
R12	680Ω		10
R13	130Ω		10
R14	130Ω		10
R15	47Ω		10
R16	220Ω 1/2 WATT		10
R17	220Ω		10
R18	2.2K		10
R19	1K		10
R20	100Ω		10
R21	22K		10
R22	3.3K		10
R23	47Ω		10
R24	1K		10
R25	RN55D1002F (10K 1%)		10
R26	RN55D2001F (2K 1%)		10
R27	4.7K		10
R28	100Ω		10
R29	330Ω		10
R30	100K		20
R31	39K		20
R32	4.7K		20
R33	22K		20
R34	12K		20
R35			
R36	27K		25
R37			
R38			
R39			
R40	10K		23

NOTE:

ALL RESISTORS EXCEPT THOSE SPECIFIED HAVE PART NO. RC076F

NET OPT

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NET OPT

3

Three Rivers Computer

100-3 PART LIST

PPS-105-E

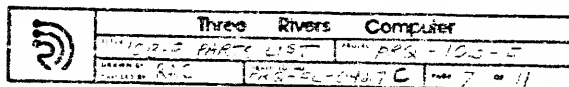
REV. 10-70

10-70-11

NOTE:

ALL RESISTORS EXCEPT
THOSE SPECIFIED HAVE
PART NO. RC07GF

NET 3PT



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				1	2	3	4
1	R41	10K	23				
2	R42	10K	23				
3	R43	10K	23				
4	R44	RN55D1401F	1.40K 1% 26				
5	R45	RN55D1001F	1.00K 1% 26				
6	R46	RN55D1002F	10.00K 1% 26				
7	R47	RN55D2001F	2.00K 1% 26				
8	R48	RN55D3011F	3.01K 1% 26				
9	R49	RN55D2001F	2.00K 1% 26				
10	R50	100K	26				
11	R51	1.5K	11	NET OPT			
12	R52	1K	20				
13	R53	10K	20				
14	R54	200Ω	19				
15	R55	300Ω	19				
16	R56						
17	R57	5.1K	19				
18	R58	5.1K	19				
19	R59	13K	19				
20	R60	1K	19				
21	R61	1K	19				
22	R62	9.1K	19				
23	R63	4.7K	26	KLUGE			
24	R64	9.1K	19				
25	R65	510Ω	19				
26	R66	100K	19				
27	R67	3.9K	19				
28	R68	100K	19				
29	R69	3.3K	19				
30	R70	100Ω	19				
31	R71	6.2K	19				
32	R72	RC20GF330J (33Ω 1/2W)	19				
33	R73 - R76	1.2KΩ	see U33				
34	R77 - R79	130Ω	see U33				
35	TRIM	89PR10K	19				
36	C1	5PF	11	NET OPT			
37	C2	.001μF	11	NET OPT			
38	C3	.001μF	11	NET OPT			
39	C4	UK16-103	.01μF disk 13	NET OPT			
40	C5	UK16-103	.01μF disk 13	NET OPT			

NOTE

ALL RESISTORS
EXCEPT THOSE
SPECIFIED ARE
RC076F

NET OPT

3



PRQ-PCB-IOB-F

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COLUMN WRITE

				1	2	3	4
1	C 6	UK16-103	.01uF/16V	DISK	10		
2	C 7	202A20025M1	2.2uF	10			
3	C 8		.001uF10%	10			
4	C 9		27pF 10%	10			
5	C 10	UK16-103	.01uF	disk	10		
6	C 11	UK16-103	.01uF	disk	10		
7	C 12	202A200225M1	2.2uF	10			
8	C 13		100 pF	10			
9	C 14	202A200225M1	2.2uF	20			
10	C 15	CW20C563K	.056uF	20			
11	C 16	↑	.056uF	20			
12	C 17	↓	.056uF	20			
13	C 18	CW20C563K	.056uF	20			
14	C 19	CW15C153K	.015uF	20			
15	C 20	TE1135.5	.140uF	12V	20		
16	C 21	202A200225M1	2.2uF	20			
17	C 22	UK16-103	.01uF/16V	23			
18	C 23	↑	.01uF/16V	23			
19	C 24	↓	.01uF/16V	23			
20	C 25	↓	.01uF/16V	23			
21	C 26	UK16-103	.01uF/16V	26			
22	C 27	202A200225M1	2.2uF	(disk)	28		
23	C 28	202A200225M1	2.2uF	(disk)	20		
24	C 29						
25	C 30	UK16-104	.1uF/10V				
26	C 31	UK16-103	.01uF/16V	19			
27	C 32	UK16-103	.01uF/16V	19			
28	C 33	UK16-103	.01uF/16V	19			
29	C 34	202A200225M1	2.2uF	20			
30	C 35						
31	C 36	UK16-103	.01uF/16V	25			
32	C 37	DD502	.005uF	19			
33	C 38	CD15F020N03	200 pF	19			
34	C 39	UK16-103	.01uF/16V	19			
35	C 40	UK16-104	.1uF/10V	19			
36	C 41	DD502	.005uF	19			
37	C 42	DD221	220 pF	19			
38	C 43	DD100	10 pF	19			
39	C 44	DD221	220 pF	19			
40	C 45	202A200225M1	2.2uF	19			

NET OPT

NET OPT

3

COLUMN WRITE

	1	2	3	4
1	C 46	202A200225M1	2.2uF 19	
2	C 47	202A200225M1	2.2uF 19	
3	C 48	202A200225M1	2.2uF 19	
4	TOTAL INCLUDING TOTAL			
5	202A200225M1 TOTAL INCLUDING TOTAL			
6	SILMAN 2.2/20V THOSE ALREADY LISTED 40			
7	CY15C103M CRL. 63			
8	.01 CERAMIC CAPS.			
9	X 1	K1100A-10MHZ	CRYSTAL OSCILL 15	NET OPT
10	X 2	K1100A-8.0MHZ	CRYSTAL OSCILL 31	(14 PIN SOCKET)
11	X 3	K1100A-2.4576 MHZ	CRYSTAL OSCILL 21	(14 PIN SOCKET)
12				
13	DN 1	IN 4148	10	NET OPT
14	DN 2	IN 4148	10	
15				
16	DS 1	A25810	10	
17	DS 2	A25810	10	
18	DS 3	A25810	10	
19	DS 4	A25810	10	
20				
21	Q 1	MP5 6534	10	
22	Q 2	MP5 6534	10	
23	Q 3	MP5 6531	10	NET OPT
24	Q 7	AD 580 JH	26	
25	Q 8	78L05 ACZ	19	
26	Q 9	79L05 ACZ (LM320LZ-5.0)	19	
27				
28	L 1	150uH	10	NET OPT
29	L 2	4.7uH	10	NET OPT
30	L 3	WEE-56 uH (LM320LZ-5.0)	20	
31				
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39				
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REV D 1/21/81 DIV

REV C 12/1/80 DIV

COLUMN WRITE

		1	2	3	4
	HARDWARE	QUANTITY			
1	107-BLK BLACK EJECTOR	1			1
2	107-RED RED EJECTOR	1			2
3	3202 NYLON WASHERS	16			3
4	G5410 STIMPSON RIVETS	8			4
5	514AG11D or 814AG11D SOCKET	2	X2, X3		5
6	516AG37D or 816AG11D SOCKET	1	U126		6
7	520AG37D or 820AG11D SOCKET	4	U114, 115, 116, 173		7
8	524AG66D or 524AG68D SOCKET	4	U202, 203, 204, 205		8
9	528AG37D or 828AG11D SOCKET	3	U3, 4, 73		9
10	540AG37D	5	U5, 6, 30, 74, 127		10
11	PRQ-HDW-STF-A	2			11
12					12
13	PRQ-PCB-IOB-F	1			13
14					14
15					15
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38					38
39					39
40					40




Three Rivers Computer	
107-EJECTOR LIST	PRQ-IOB-F
MAC	PRQ-PCB-IOB-F

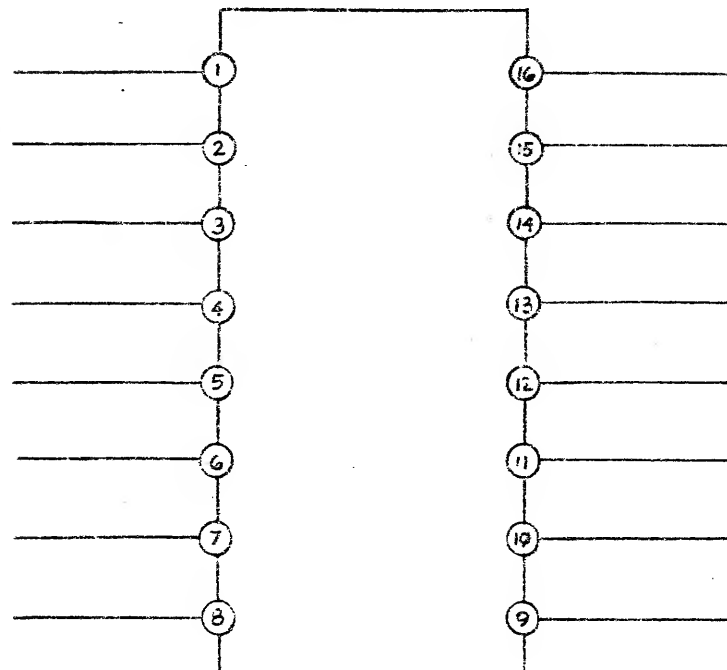
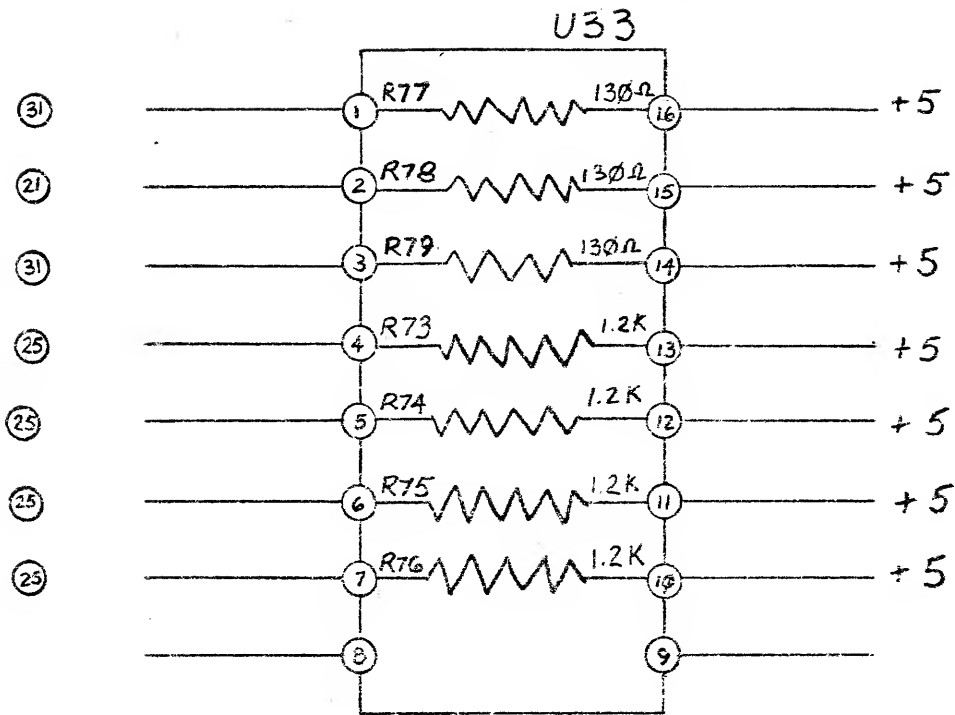
PRQ-PCB-IOB-F
SUBASSEMBLY DIRECTORY

<u>DRAWING NUMBER</u>	<u>DESCRIPTION</u>
PRQ-MD-0230-E	Card Outline
PRQ-PL-0421-E	I/O Parts List
0422-G	"
0423-F	"
0424-D	"
0425-F	"
0426-D	"
0427-C	"
0428-D	"
0429-D	"
0430-E	"
0431-C	"
0432-C	Gate Utilization
0433-B	Gate Utilization
PRQ-SC-0434-B	Table of Contents
0435-C	Disk Data Port
0436-C	Head Select
0437-C	Data Sequencer
0438-D	Header Match
0439-C	Memory Bus Interface
0440-E	Disc Arm Control
0441-C	Disc Status Inputs
0442-B	Rigid Disk Int. Connection
0443-B	Block Diagram
0444-B	Net Analog
0445-C	Data Demodulator
0446-C	Data Modulator
0447-C	Header Match
0448-B	Net Address - Latch
0449-C	Clock Generator
0450-B	Net Finite State Machine
0451-B	Overrun Detector
0452-C	Net Fifos
0453-D	PLL
0454-B	CVSD
PRQ-SC-0455-D	I/O Z80 Layout
0456-B	I/O CPU Memory
0457-C	I/O Peripheral Decoder
0458-D	DMA Channel
0459-D	RS232 Interface
0460-C	Touch Pad Interface
0461-B	GPIO Interface
0462-C	Keyboard Interface
0463-D	Interrupt Vector Select

<u>DRAWING NO.</u>	<u>DESCRIPTION</u>
PRQ-SC-0464-B	I/O Address Decode
0465-F	Floppy Control
0466-B	Floppy Disc Int. Connector
0467-B	Block Diagram
0468-B	Channel Selector
0469-B	" "
0470-C	" "
0471-D	Address Counter
0472-B	High Address Latch
0473-B	Address Count Select
PRQ-SD-0474-E	Subassembly Directory
0475-E	" "
PRQ-SK1-0476-A	PRQ-SK1-IOB-F
PRQ-HA-0573-A	Header Assembly

4

	Three Rivers Computer	
	<small>DESIGNED BY</small> J. R. G. S. / J.	<small>DATE</small> PRQ-IOB-F
	<small>CREATED BY</small> J. R. G. S. / J.	<small>DATE</small> PRQ-SD-0474-E



INPUT OUTPUTGATE UTILIZATIONQUAD
74S00 POS. NAND

1,2 - 3
4,5 - 6
9,10 - 8
12,13 - 11

U122

11
30

18

QUAD
74LS00 POS. NAND

1,2 - 3
4,5 - 6
9,10 - 8
12-13 - 11

U86

34
34
34

QUAD
74S02 POS. NOR

2,3 - 1
5,6 - 4
8,9 - 10
11,12 - 13

U36

24
39

DUAL DIFF.
DS75114 LINE DRIVERS U76

5,6,7 - 1,2,3,4
9,10,11 - 12,13,14,15 1

HEX.
74S04 INV.

1 - 2
3 - 4
5 - 6
8 - 9
10 - 11
12 - 13

U187U125U97

29 27 34
29 27 34

39 23 34
7
1 34

HEX.
INV.
7406 BUFF.

1 - 2
3 - 4
5 - 6
9 - 8
11 - 10
13 - 12

U21

10
10
10
10
25

QUAD
74LS08 POS. AND

1,2 - 3
4,5 - 6
9,10 - 8
12,13 - 11

U150U99U141

6 13 12
10 15
4 15
12

QUAD
74S08 POS. AND

1,2 - 3
4,5 - 6
9,10 - 8
12,13 - 11

U151

34
34

TRIPLE
3 IN
74LS10 POS. NAND U89

1,2,13 - 12
3,4,5 - 6 29
9,10,11 - 8 26

74LS32 U34

1,2 - 3 23
4,5 - 6 23
8,9 - 10
11,12 - 13

QUAD
74S86 EXC. OR U38 U156

1,2 - 3 10 12
4,5 - 6 11 12
9,10 - 8 11
12,13 - 11

DUAL
74S112 FLIP-FLOP U47

1,2,3,4,5,6,15 1
7,9,10,11,12,13,14

OCTAL BUFF
74S240 INV. 3ST OUT U59 U16

2 - 18 3 31
4 - 16 2 31
6 - 14 25 31
8 - 12 25 31
11 - 9 19
13 - 7 29 31
15 - 5 24 31
17 - 3 3

OCTAL BUFF
74LS244 NONINV. 3ST U112

1 (3ST)
2 - 18
4 - 16
6 - 14
8 - 12
11 - 9
13 - 7 1
15 - 5
17 - 3
19 (3ST) 1

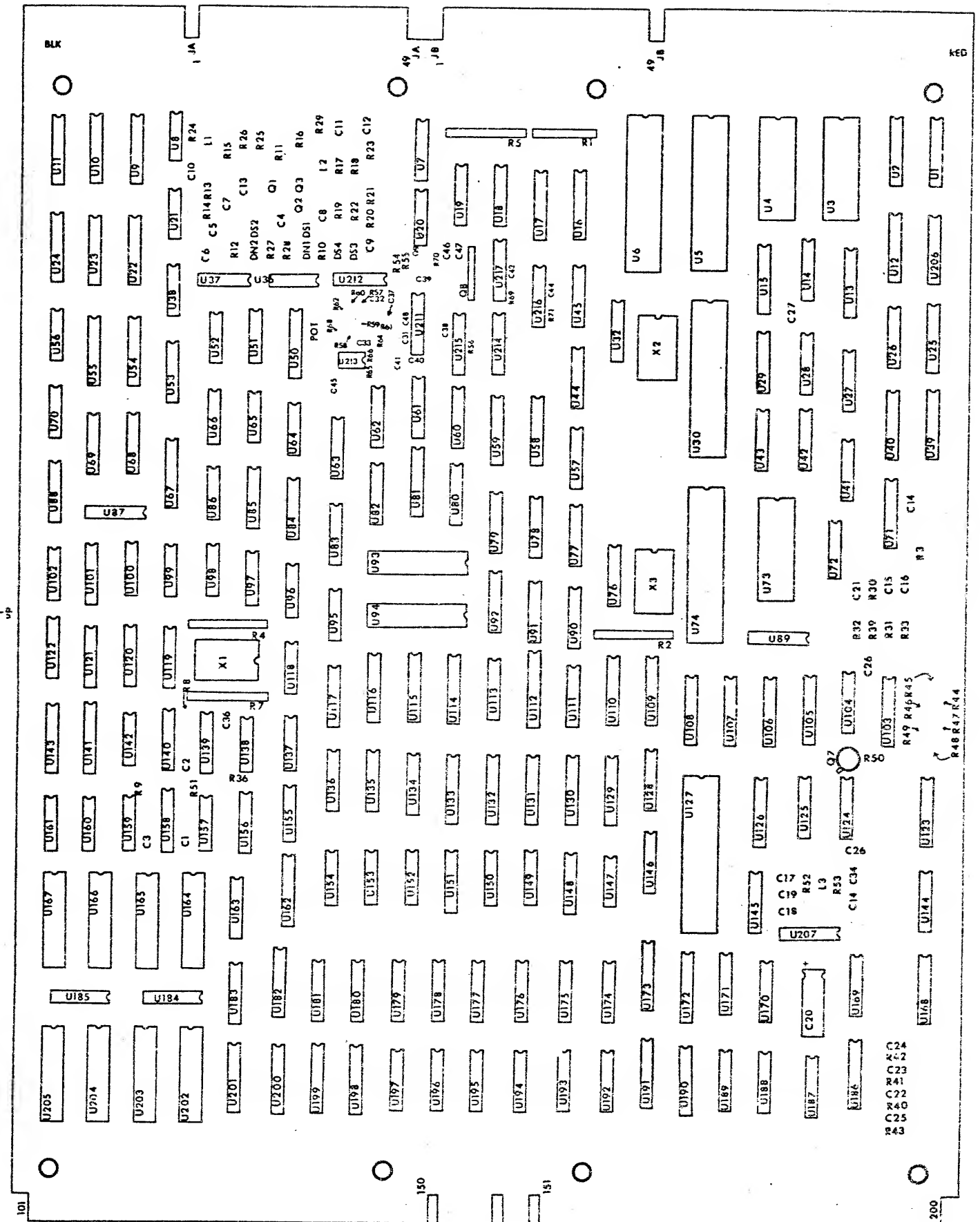
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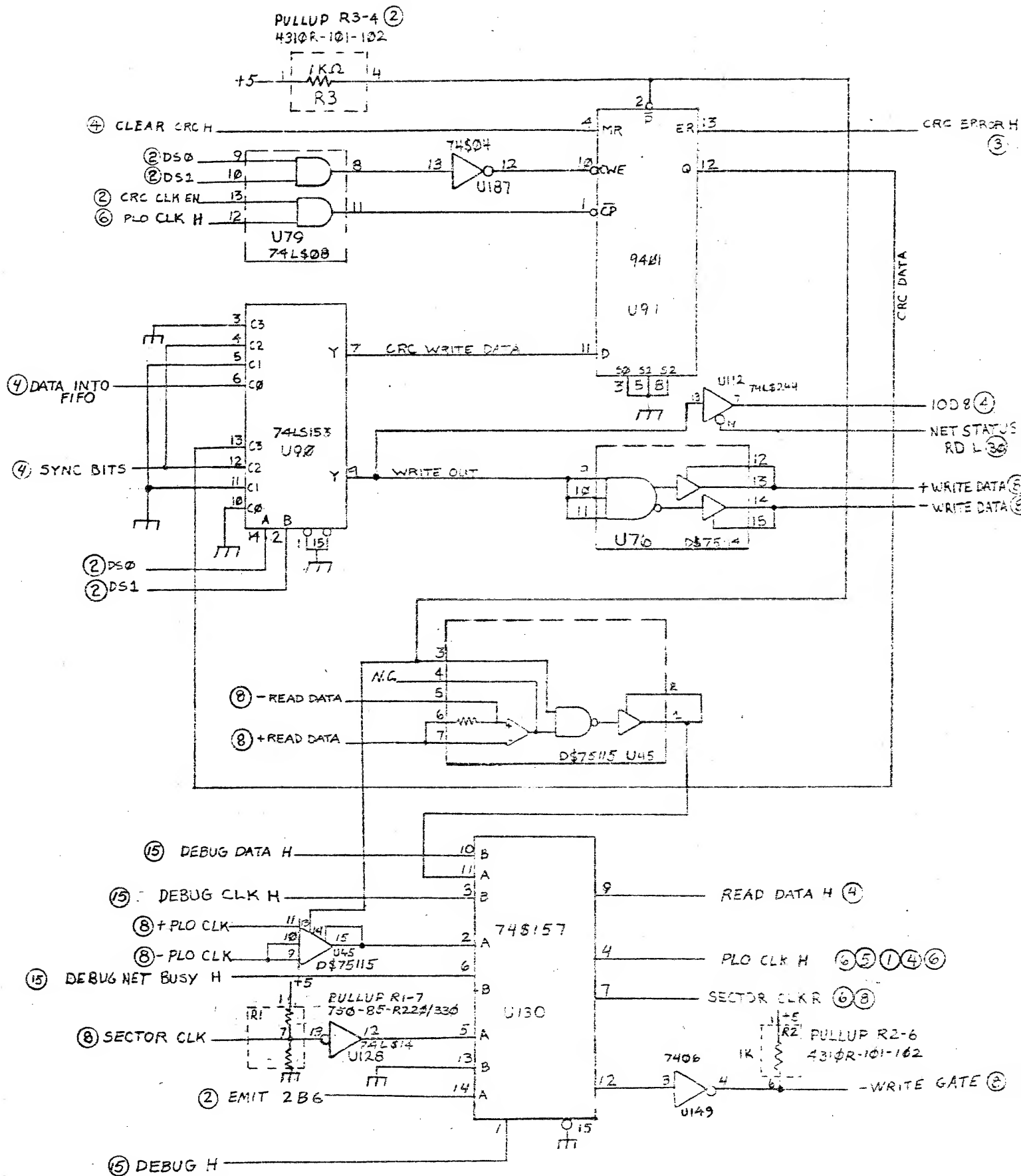
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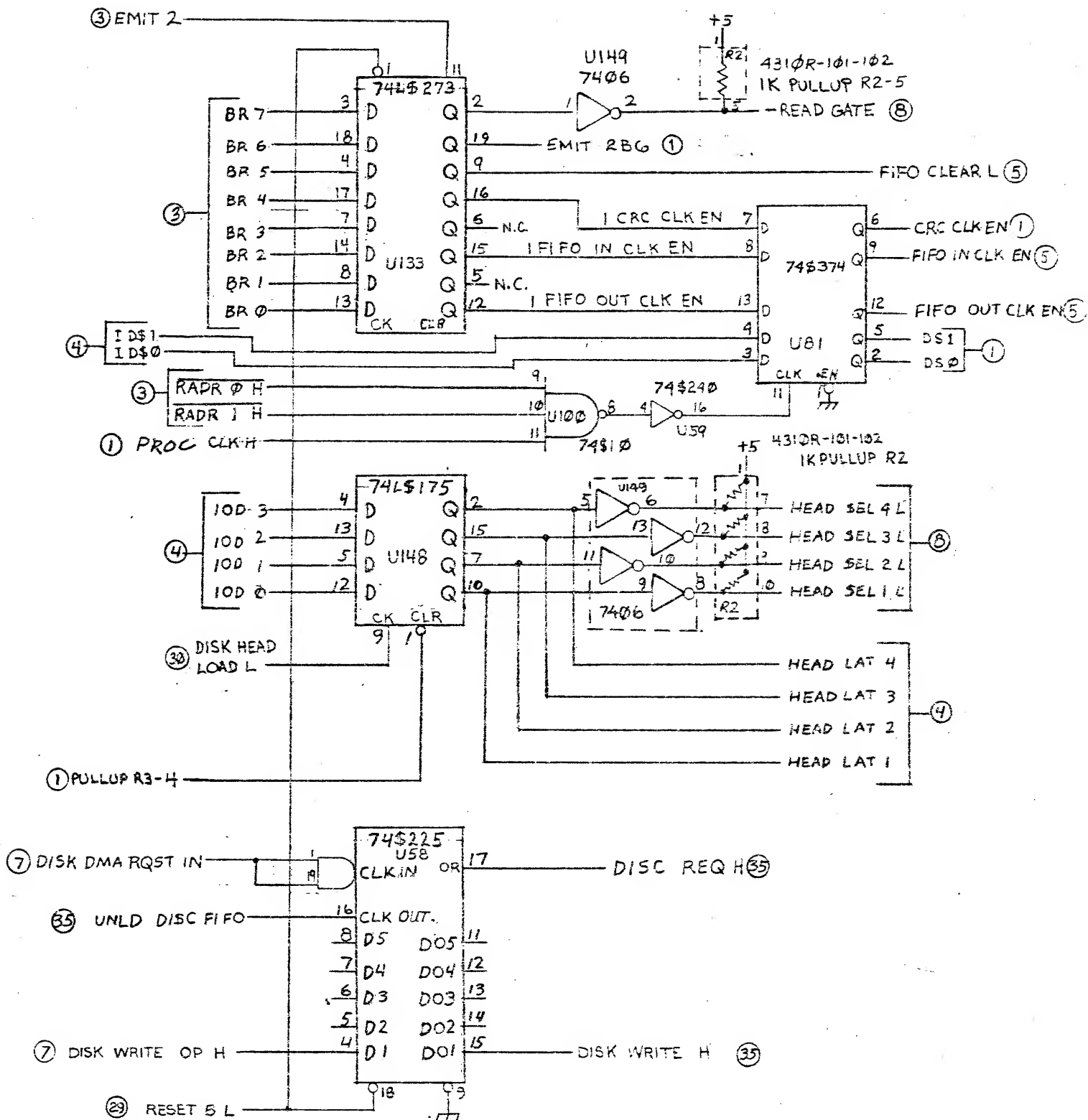
<u>SIP</u>	<u>MANUFAC. #</u>
R1-PINS 8,9,10	750-85-R220/330
R2-PIN 6	4310R-101-102
R3-PINS 9,10	4310R-101-102
R4-PINS 2,8,9,10	4310R-101-102
R5-PINS 9,10	785-1-R330
R7-PINS 6,7,8,9,10	4310R-101-102
<u>DIP</u>	
U41-PINS 6,7,9	898-1-R10K

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Header Match	4
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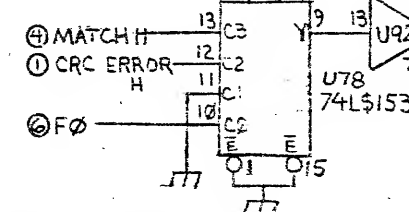
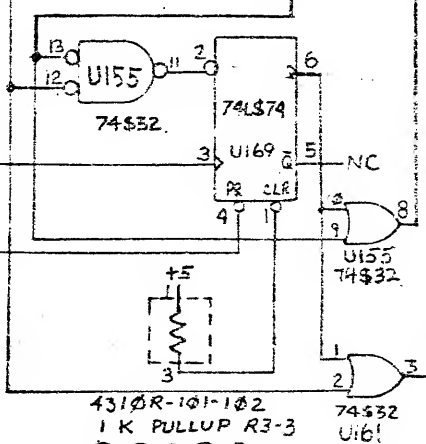
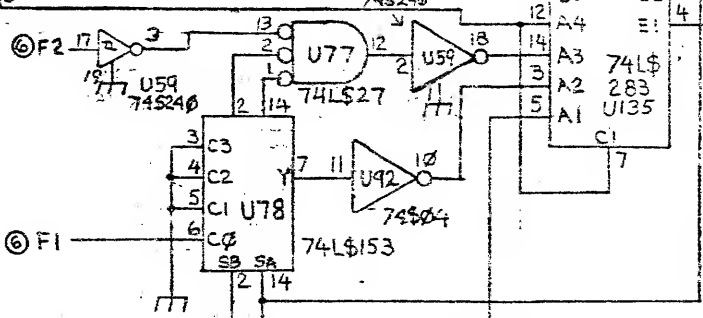
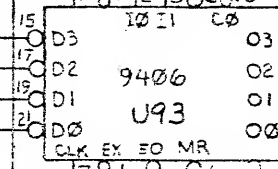
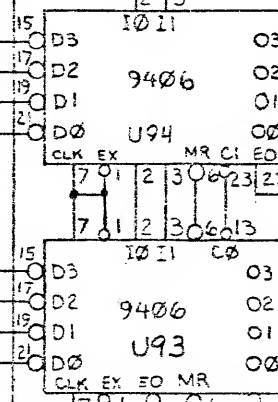
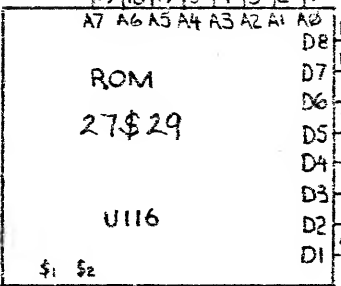
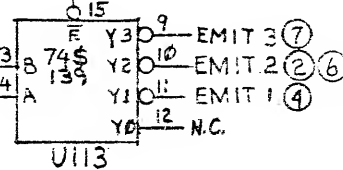
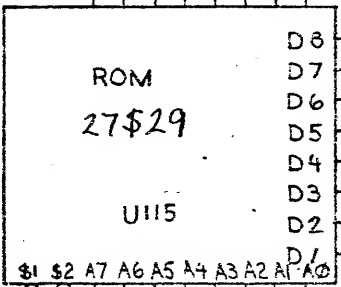
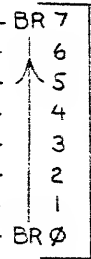
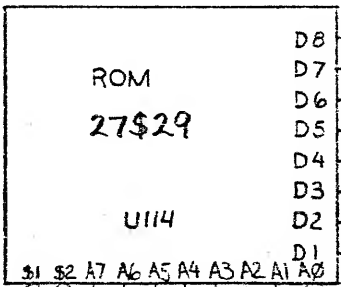






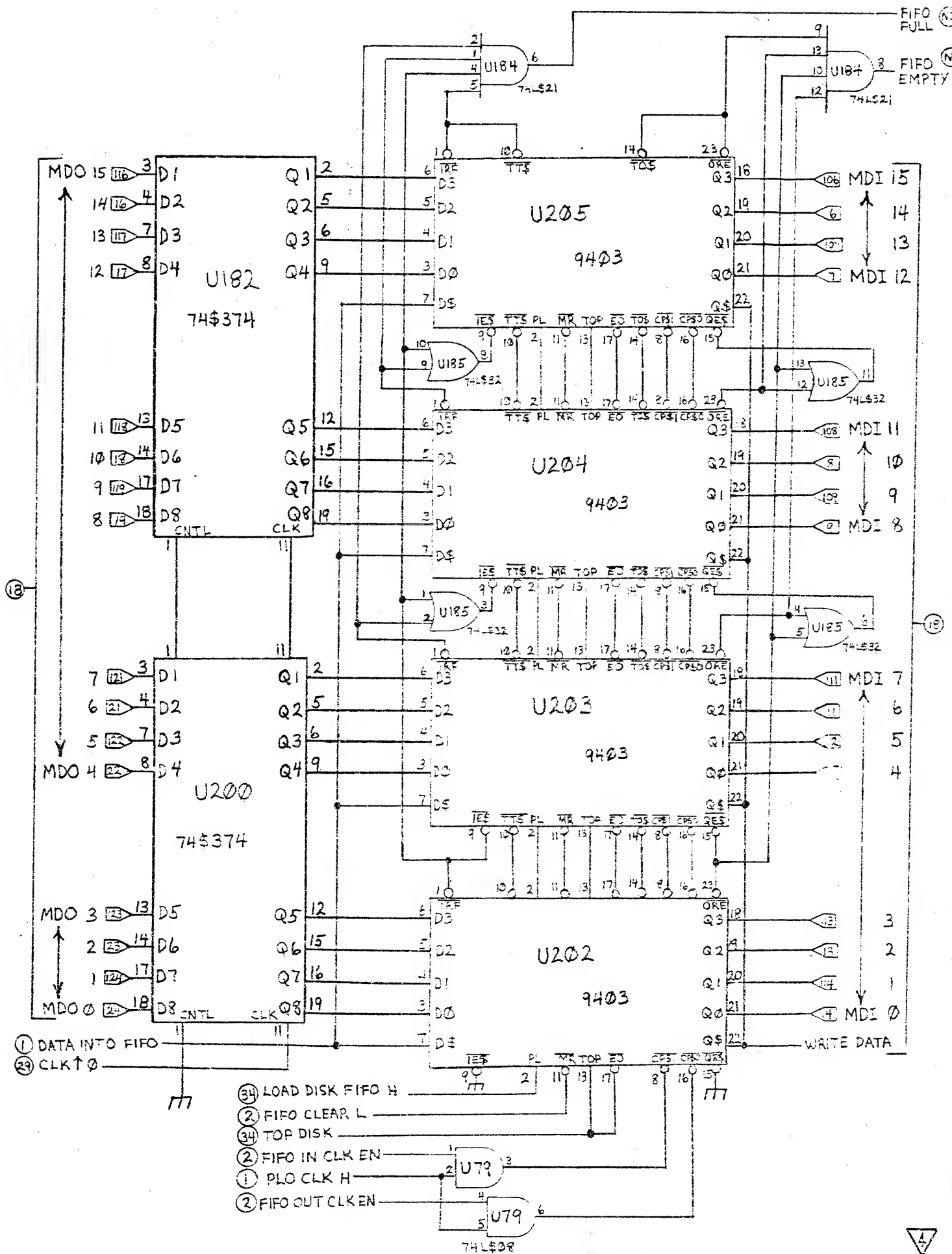
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GATED PLO CLK

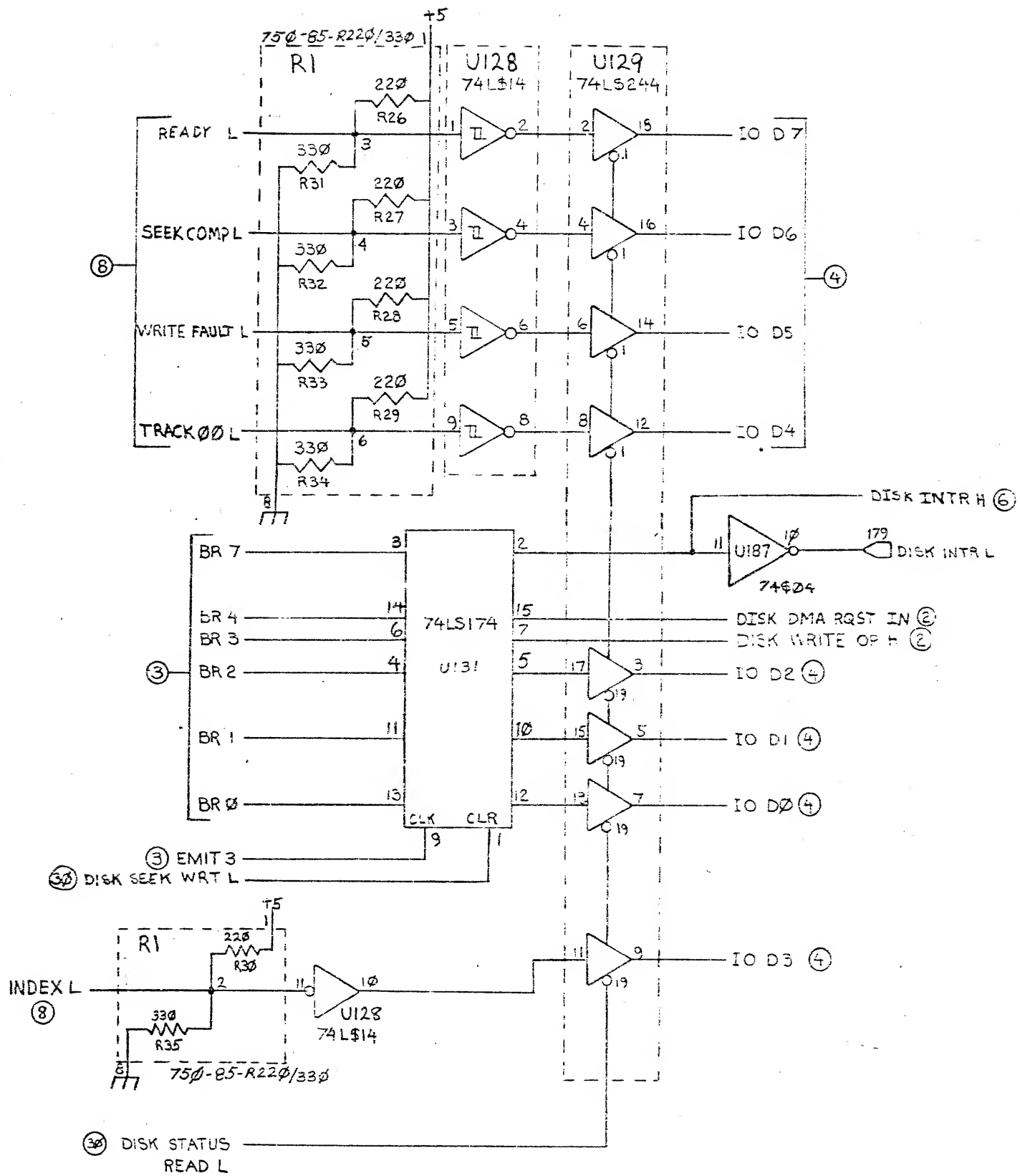
U72
74LS00

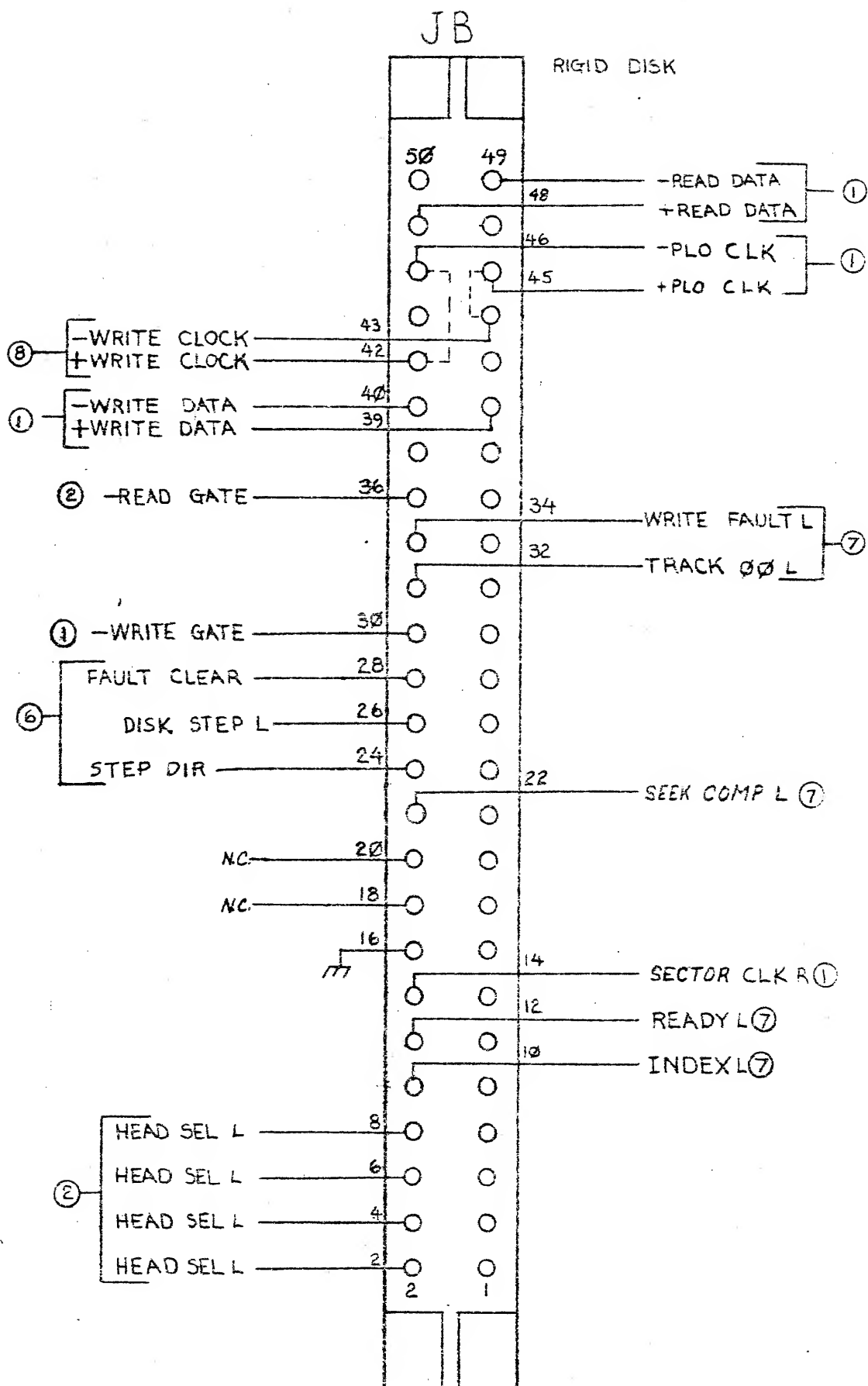


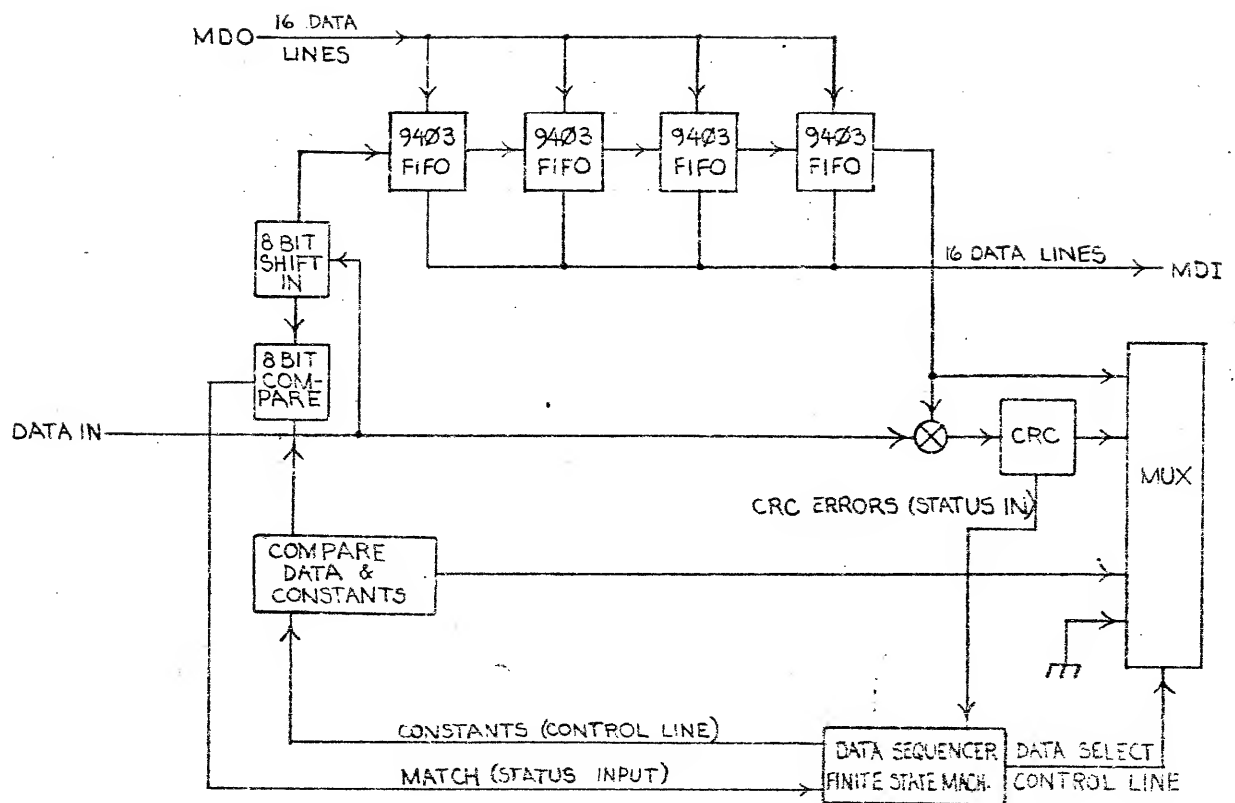
⑥ PROC CLK L
②⑨ RESET B L



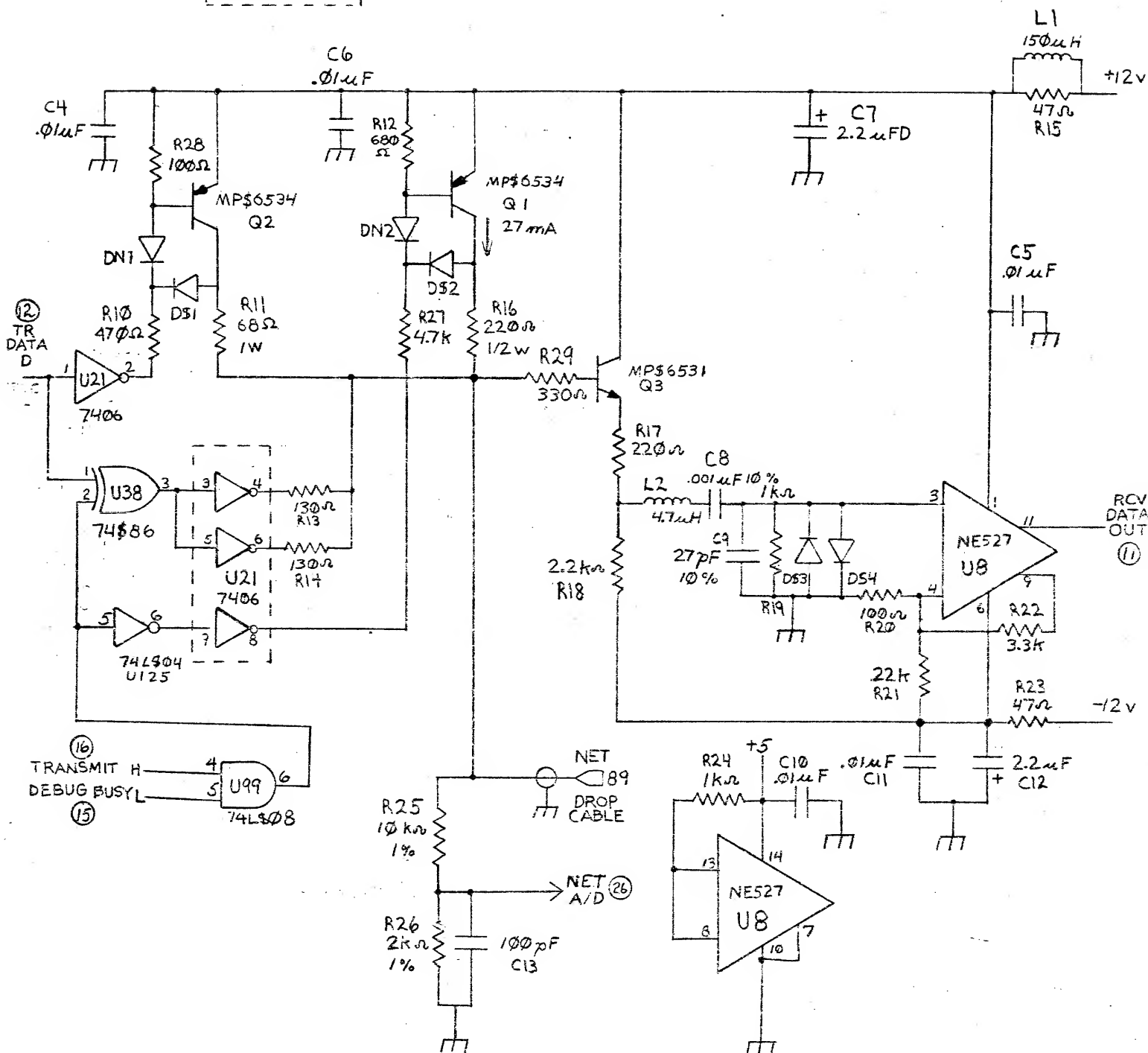




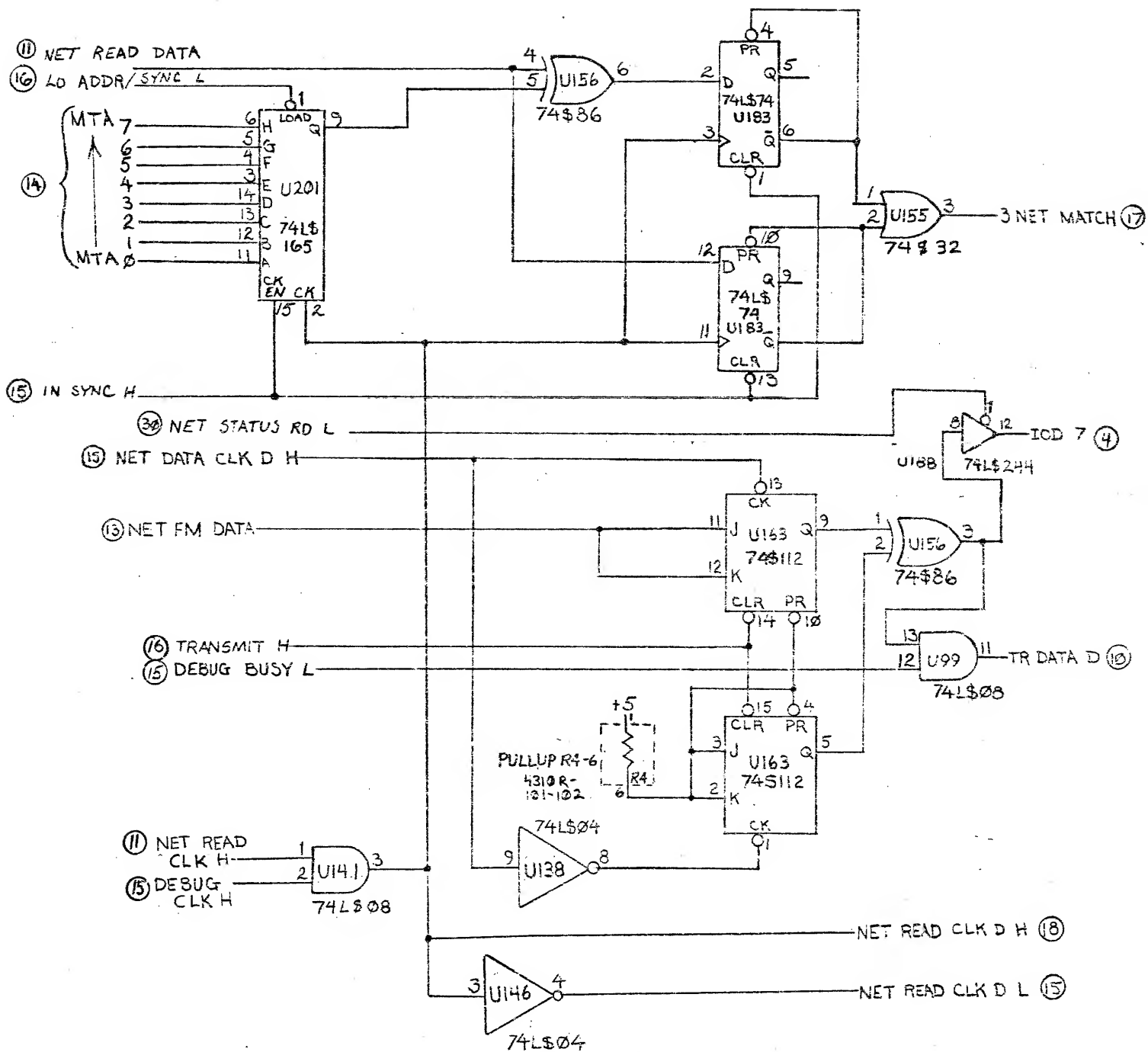


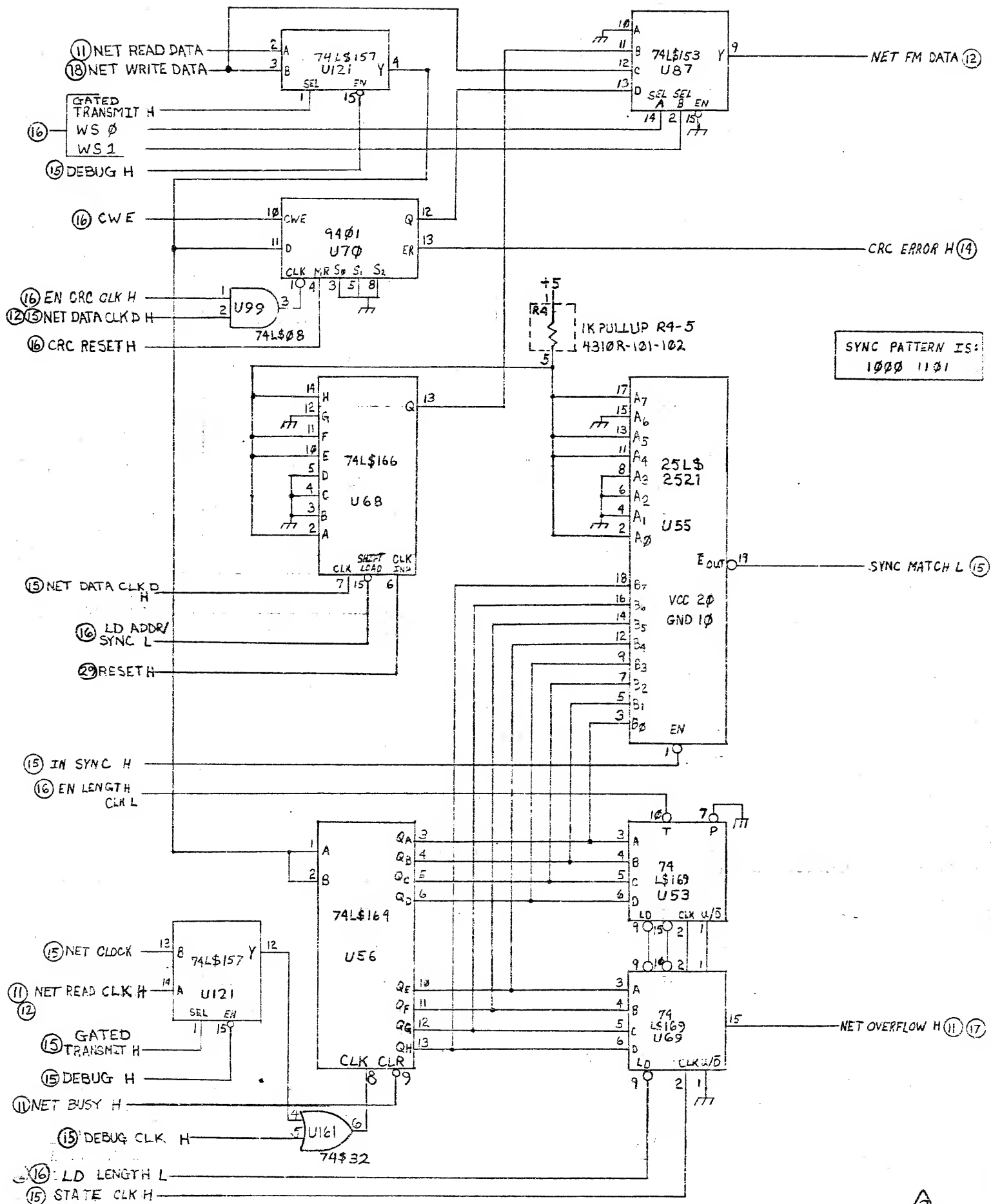


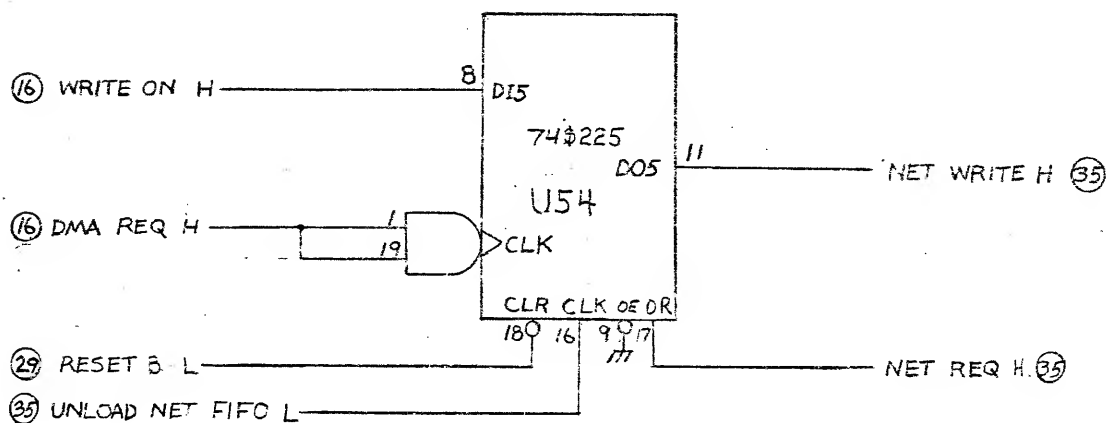
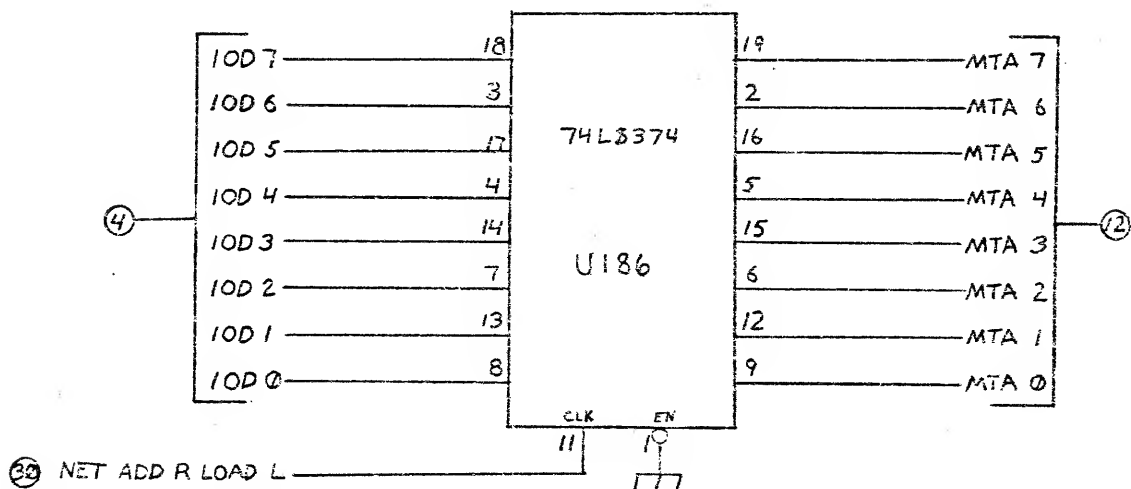
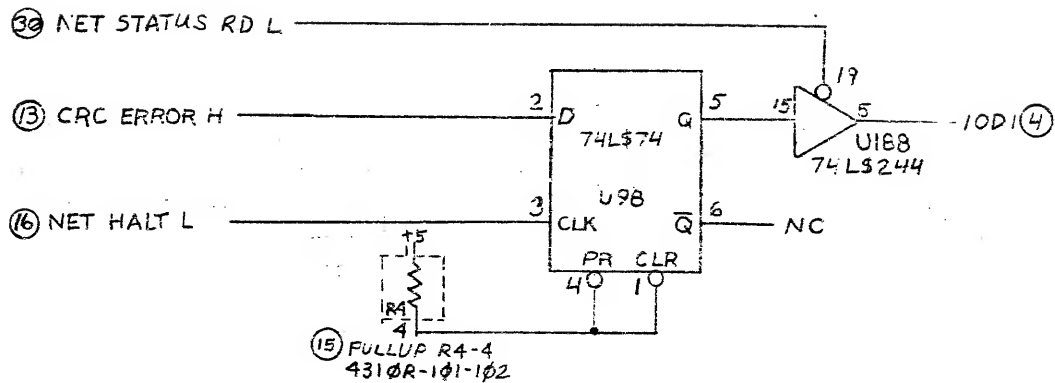
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DS-A2\$810

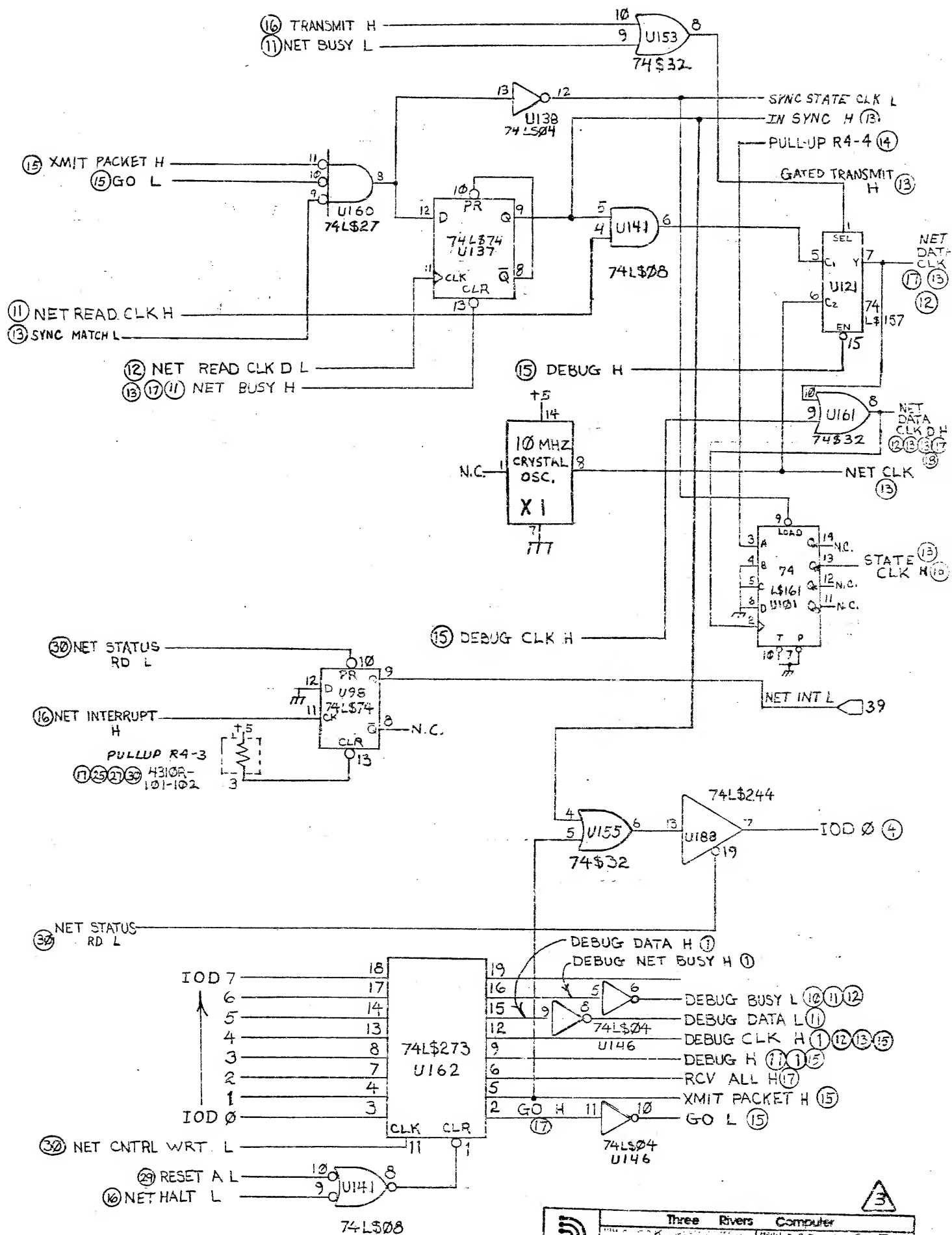


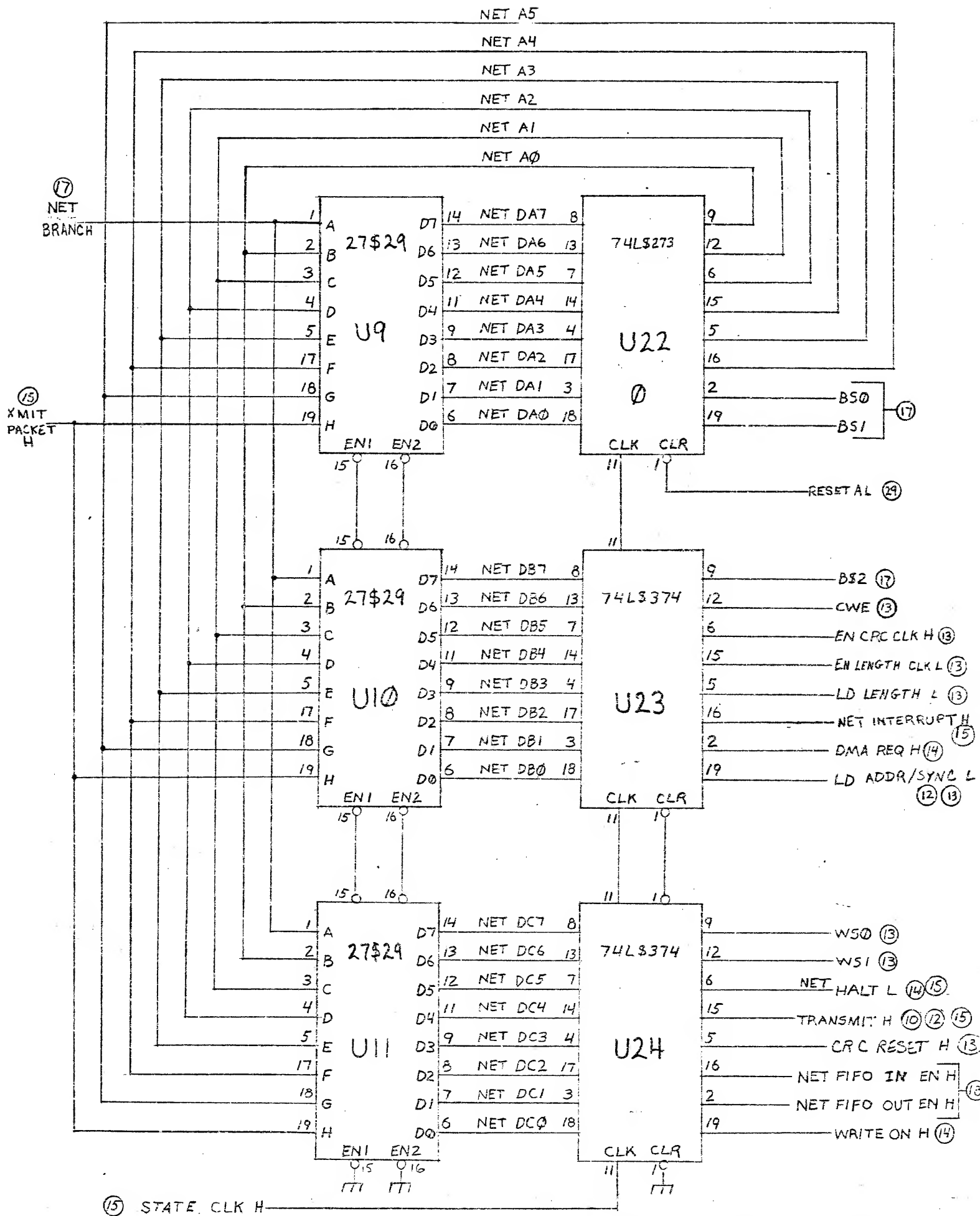


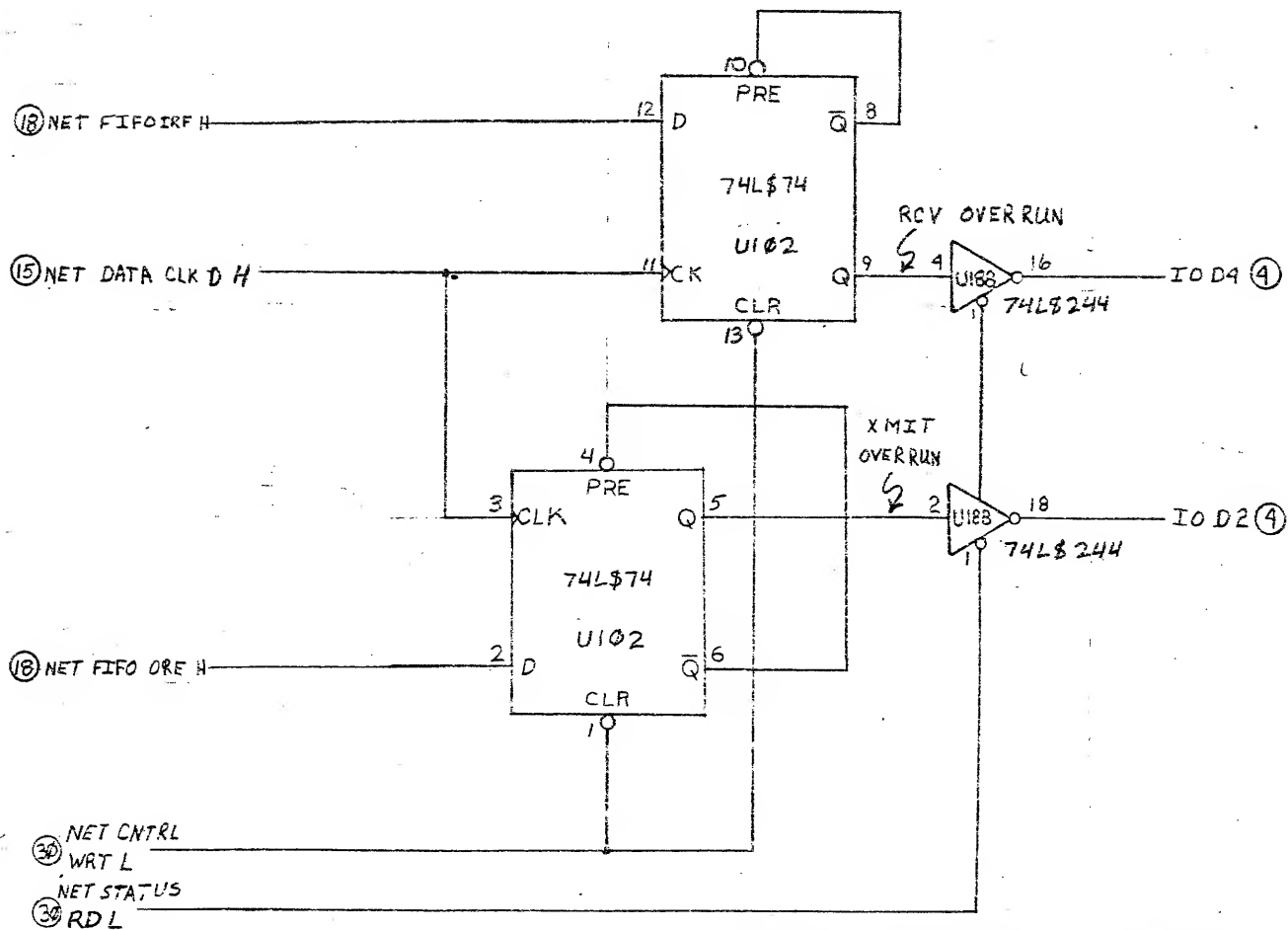
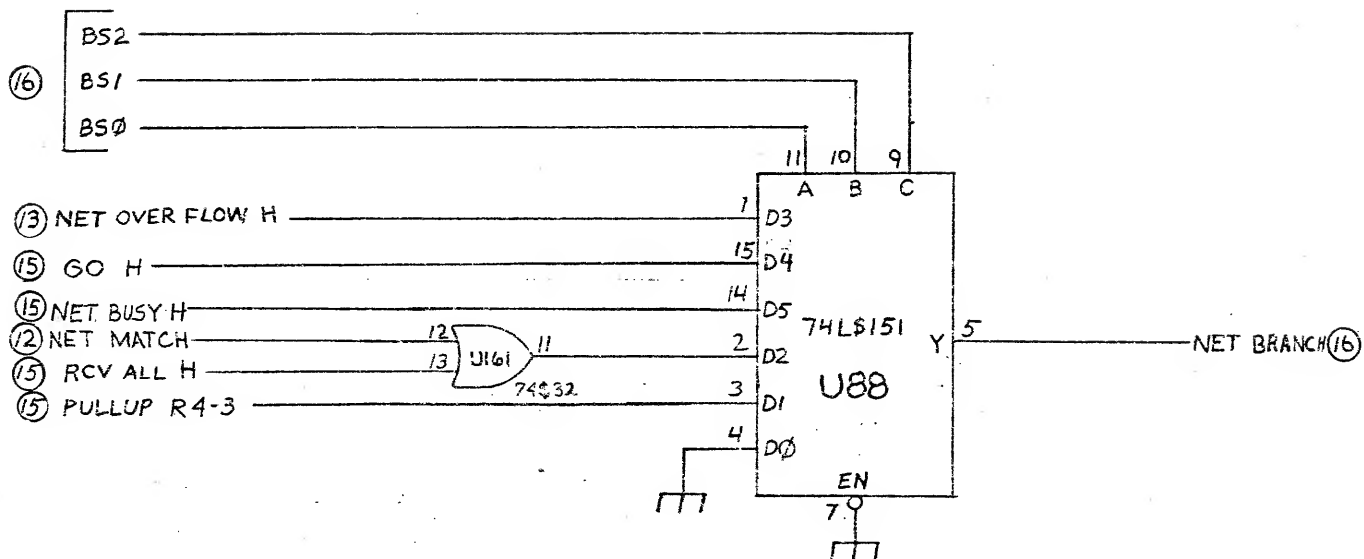


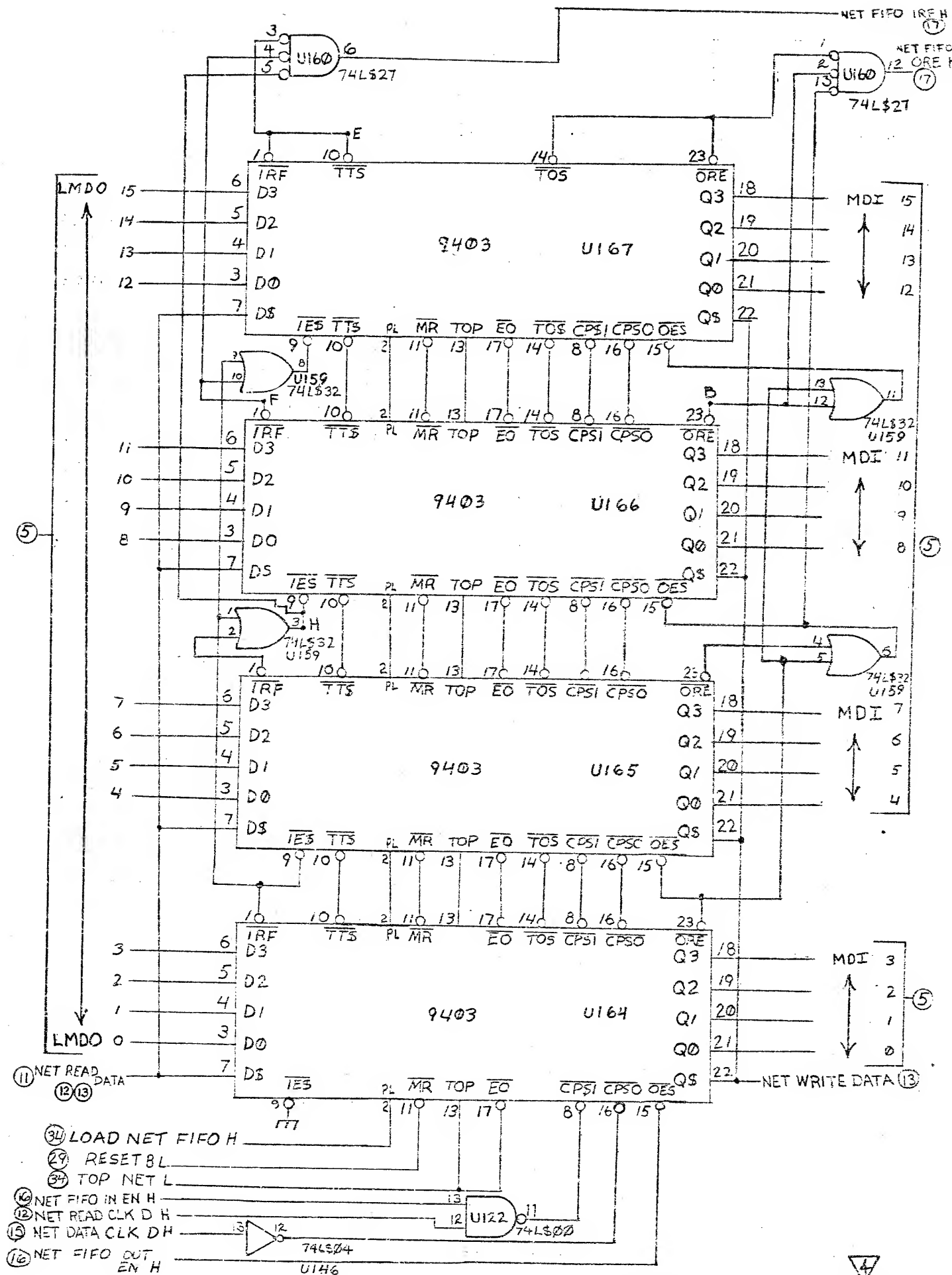


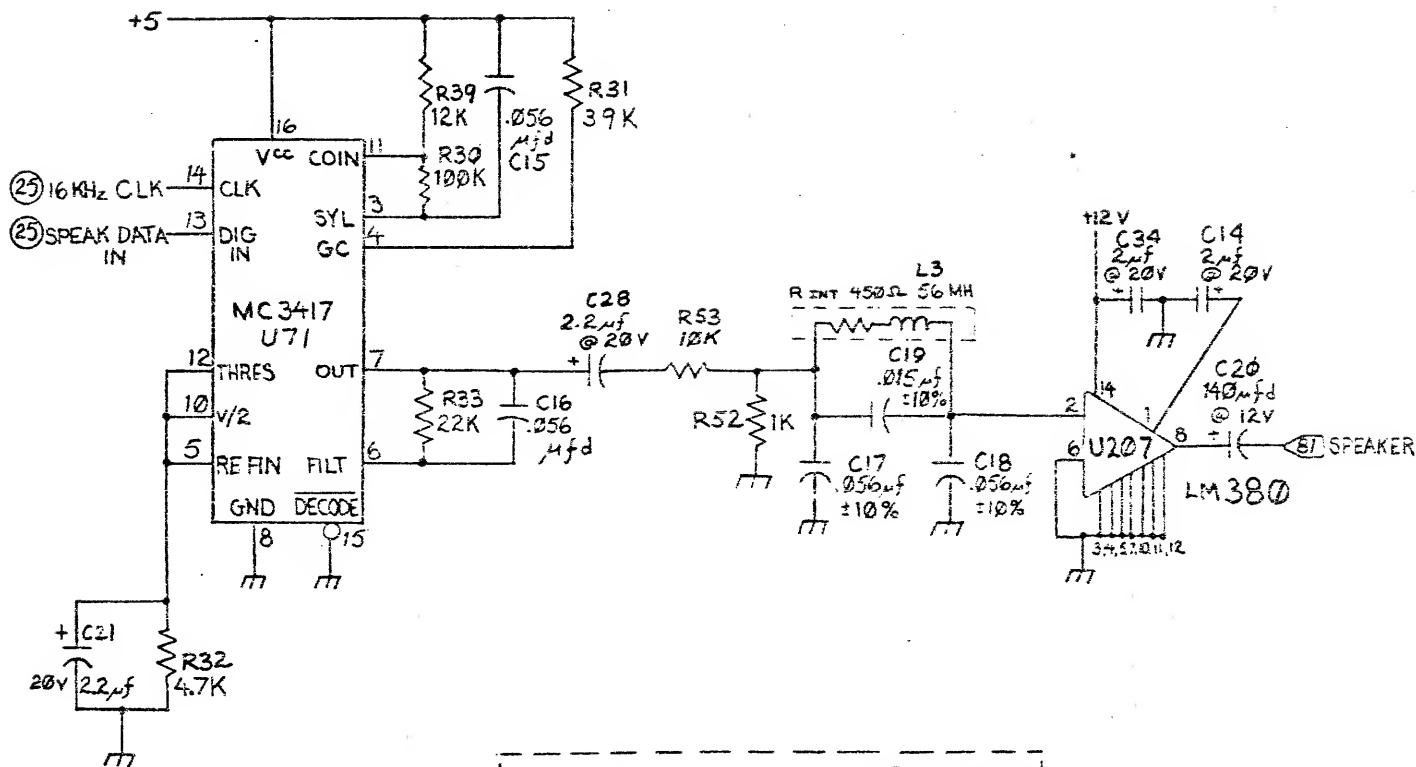


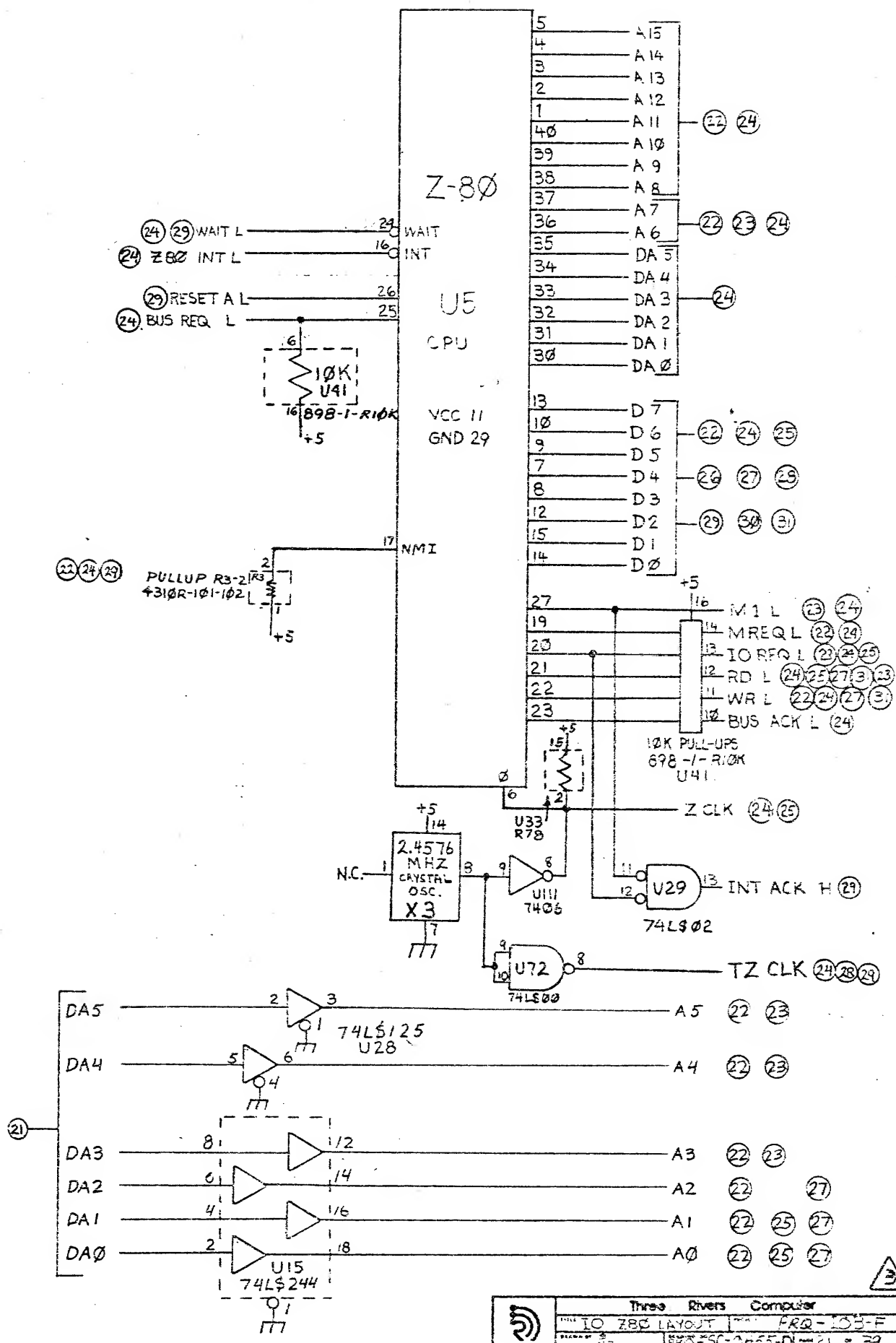










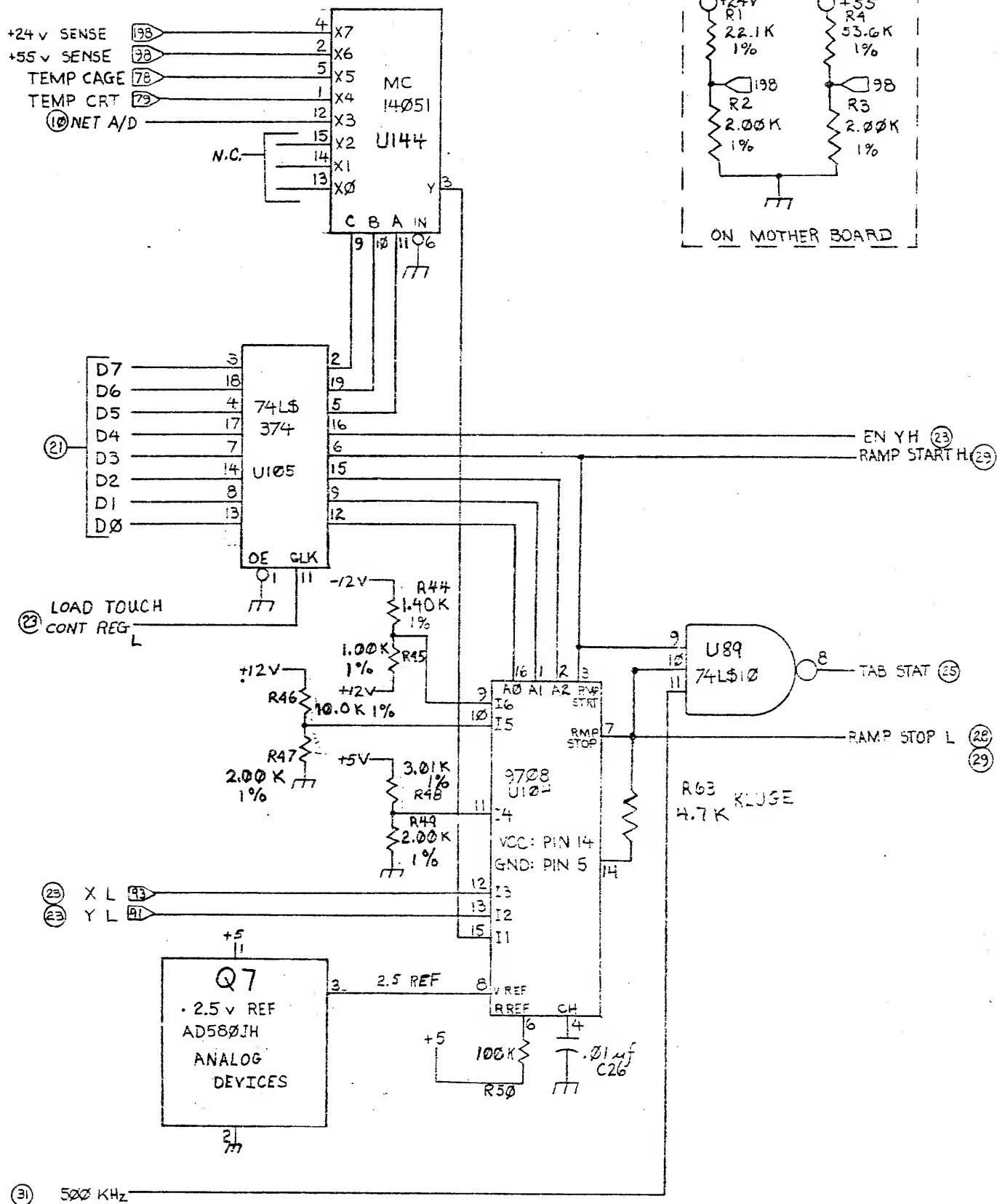


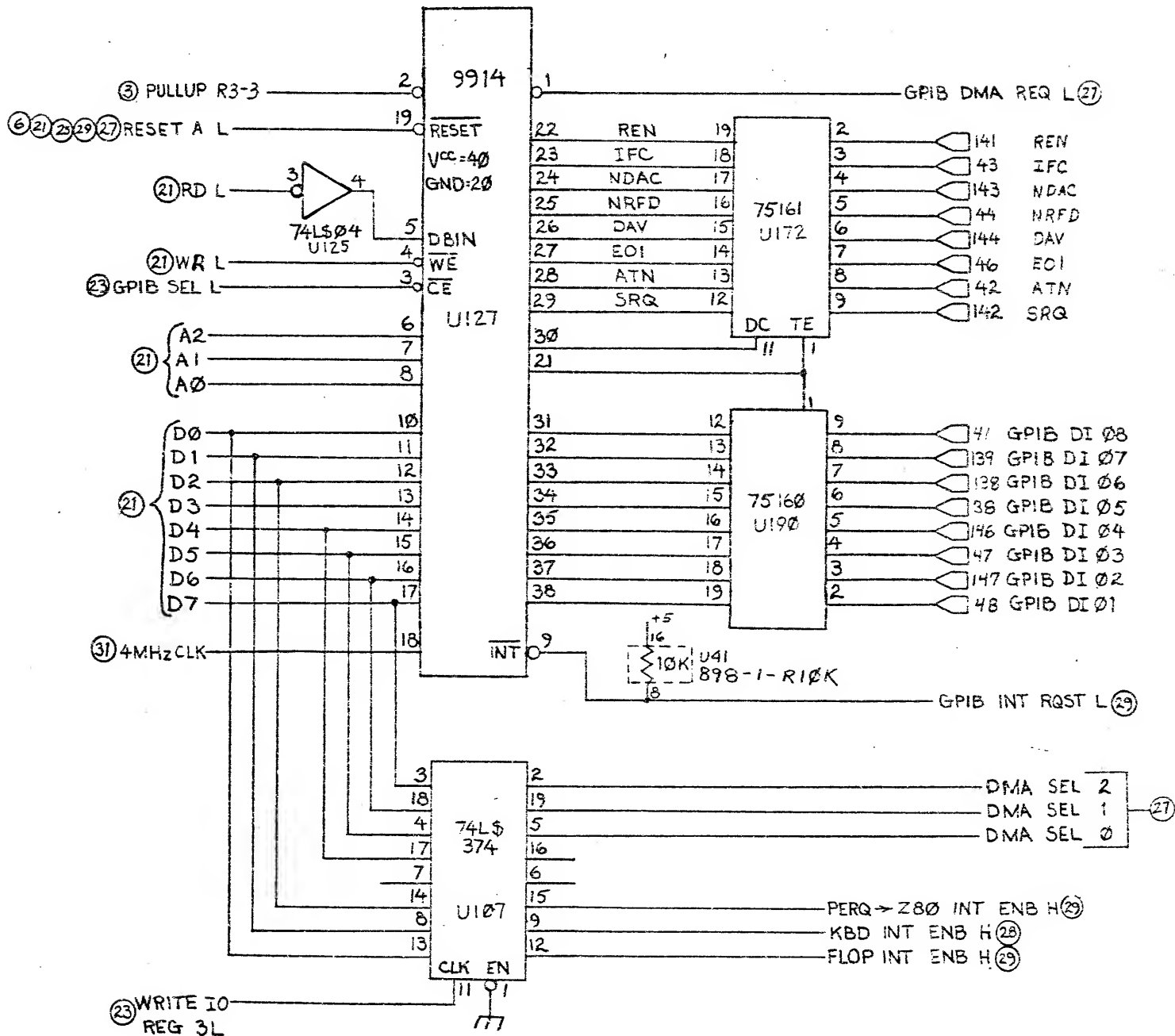
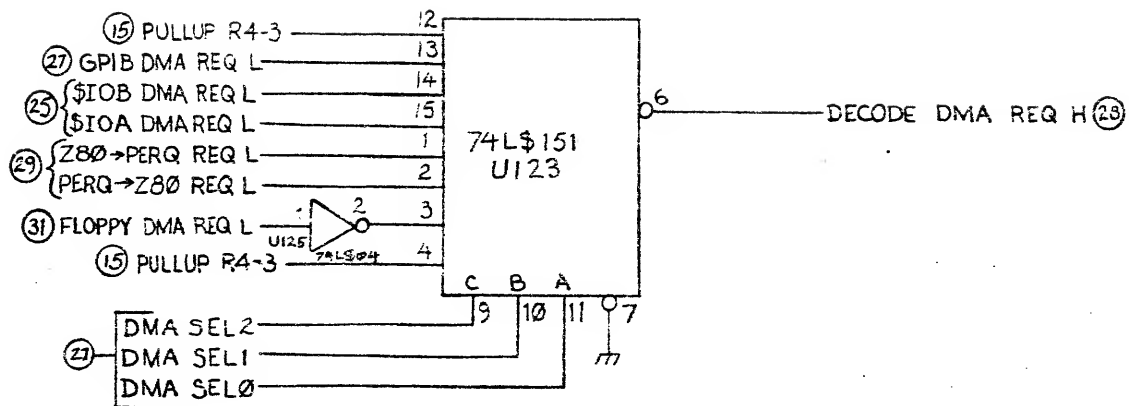
Three Rivers Computer			
FILE	IO Z80 LAYOUT	DATE	FRO-105-F
DESIGNED BY	SC	DATE	FRO-SC-2455-D
REVISION	21	DATE	21

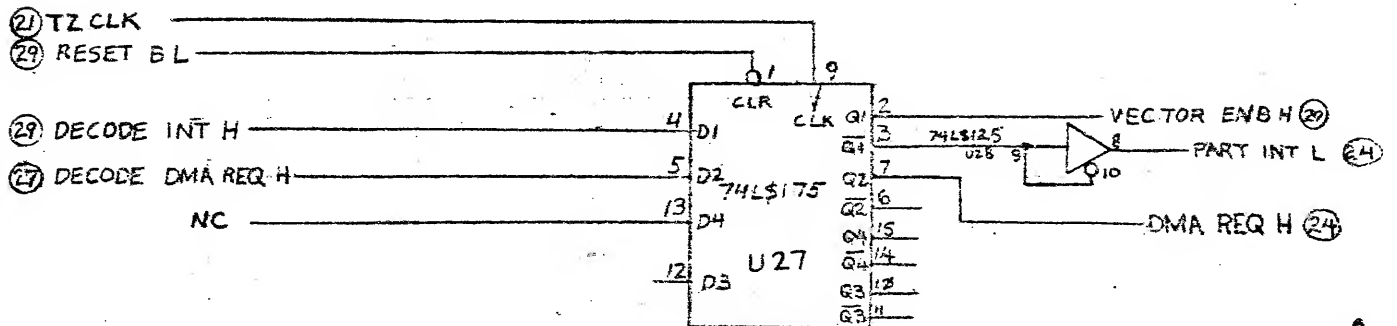
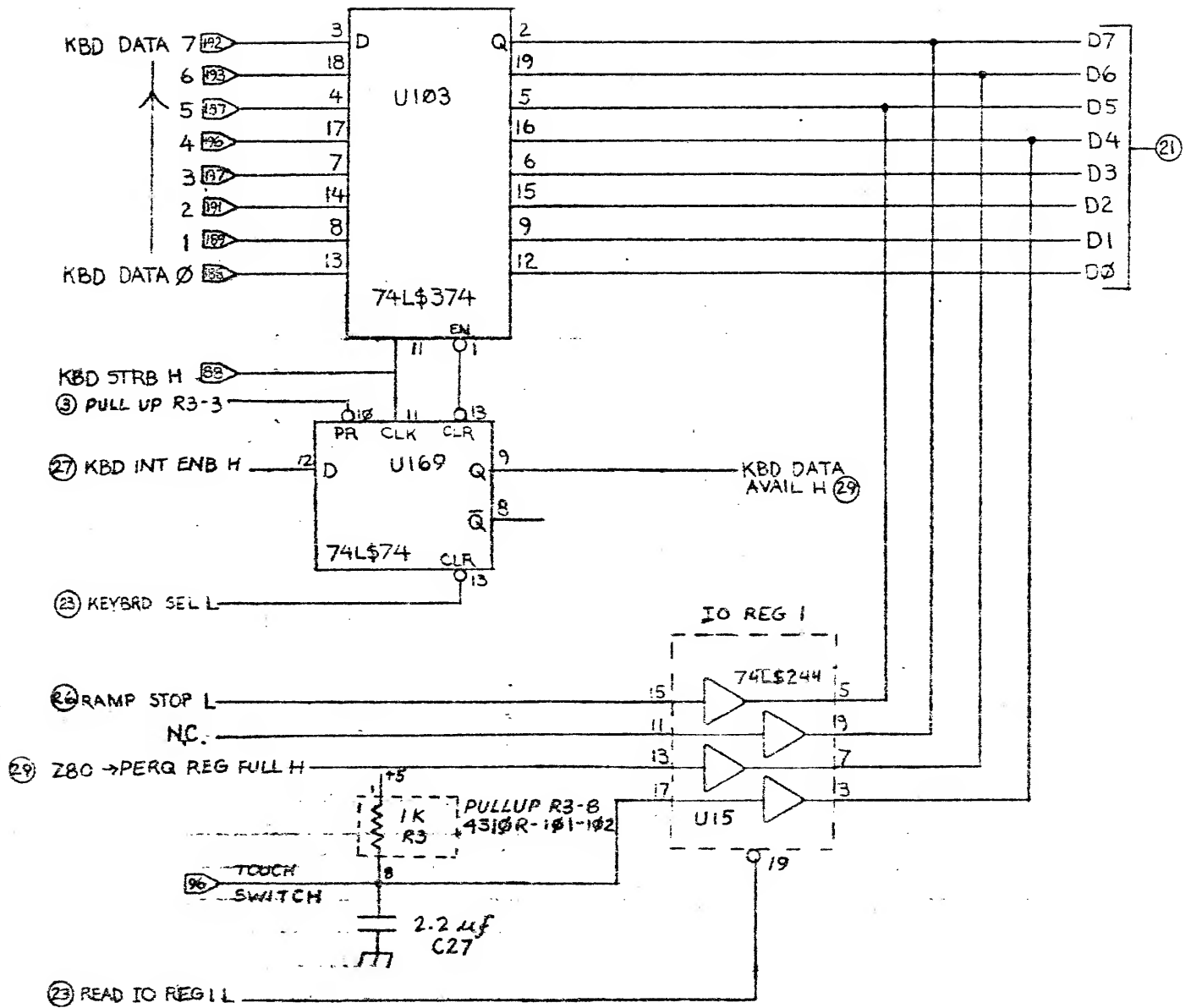
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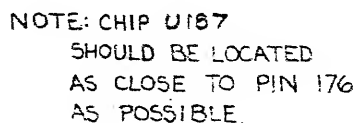


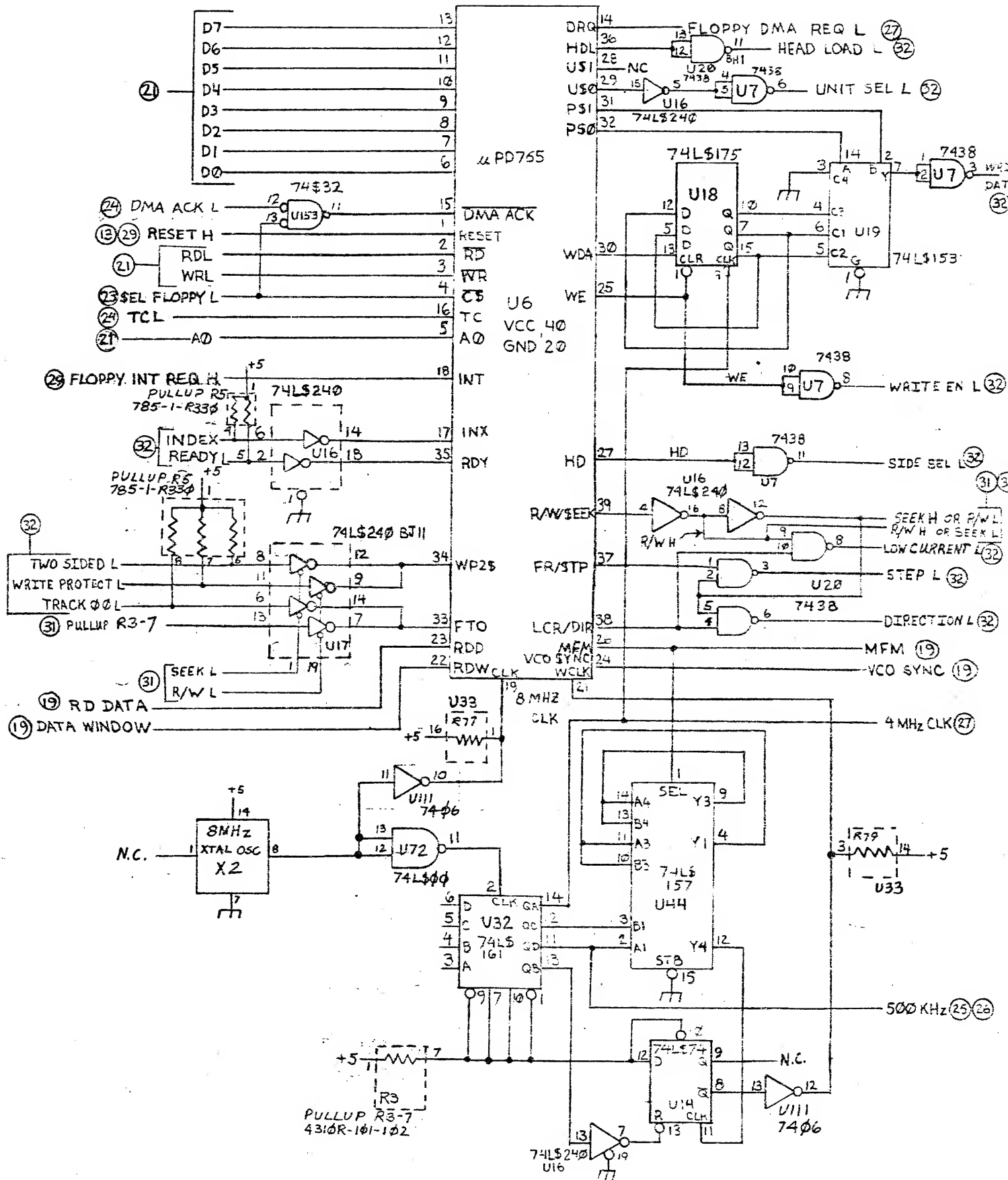






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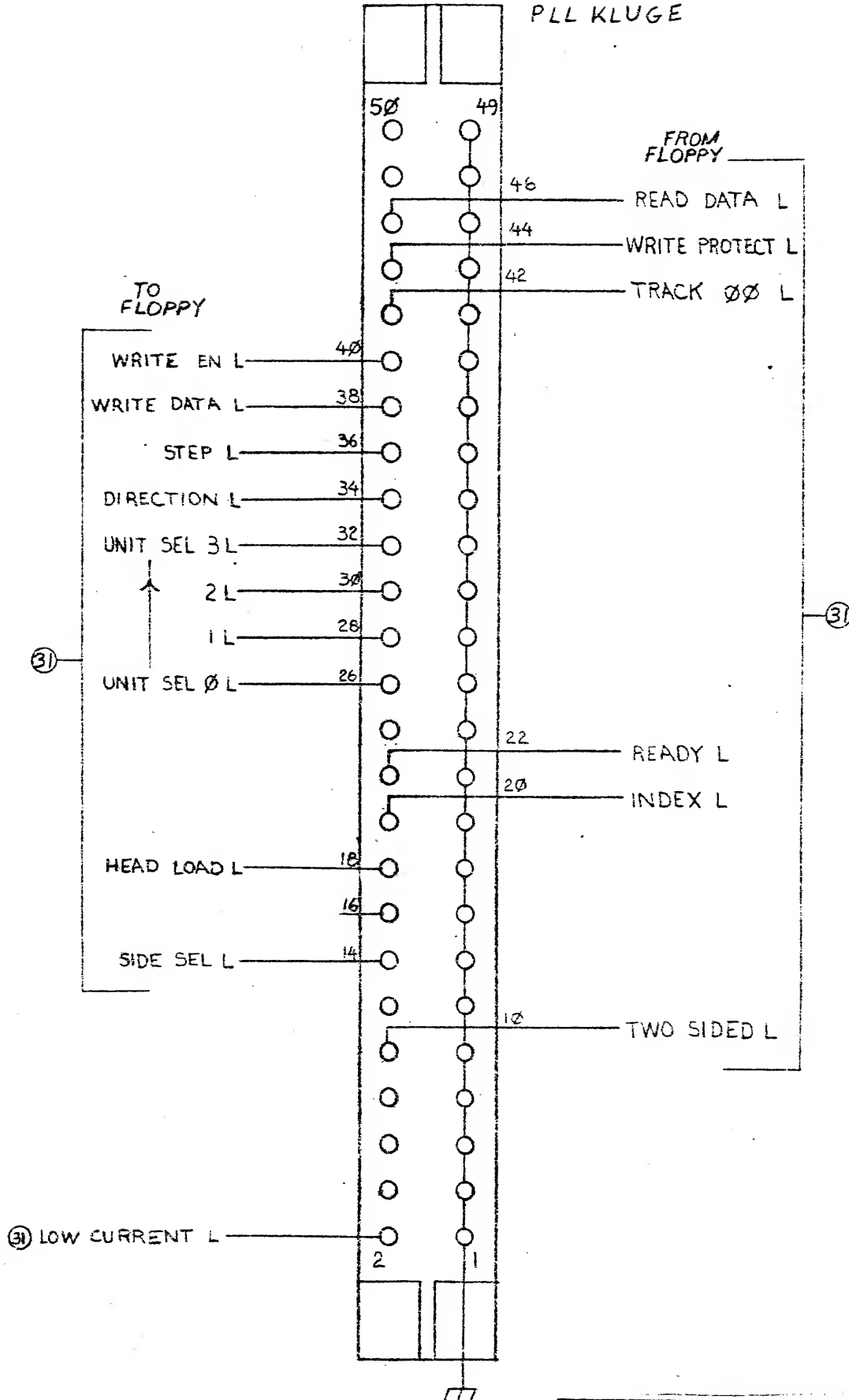




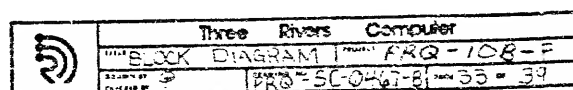
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REV C 10/11/80 DIV

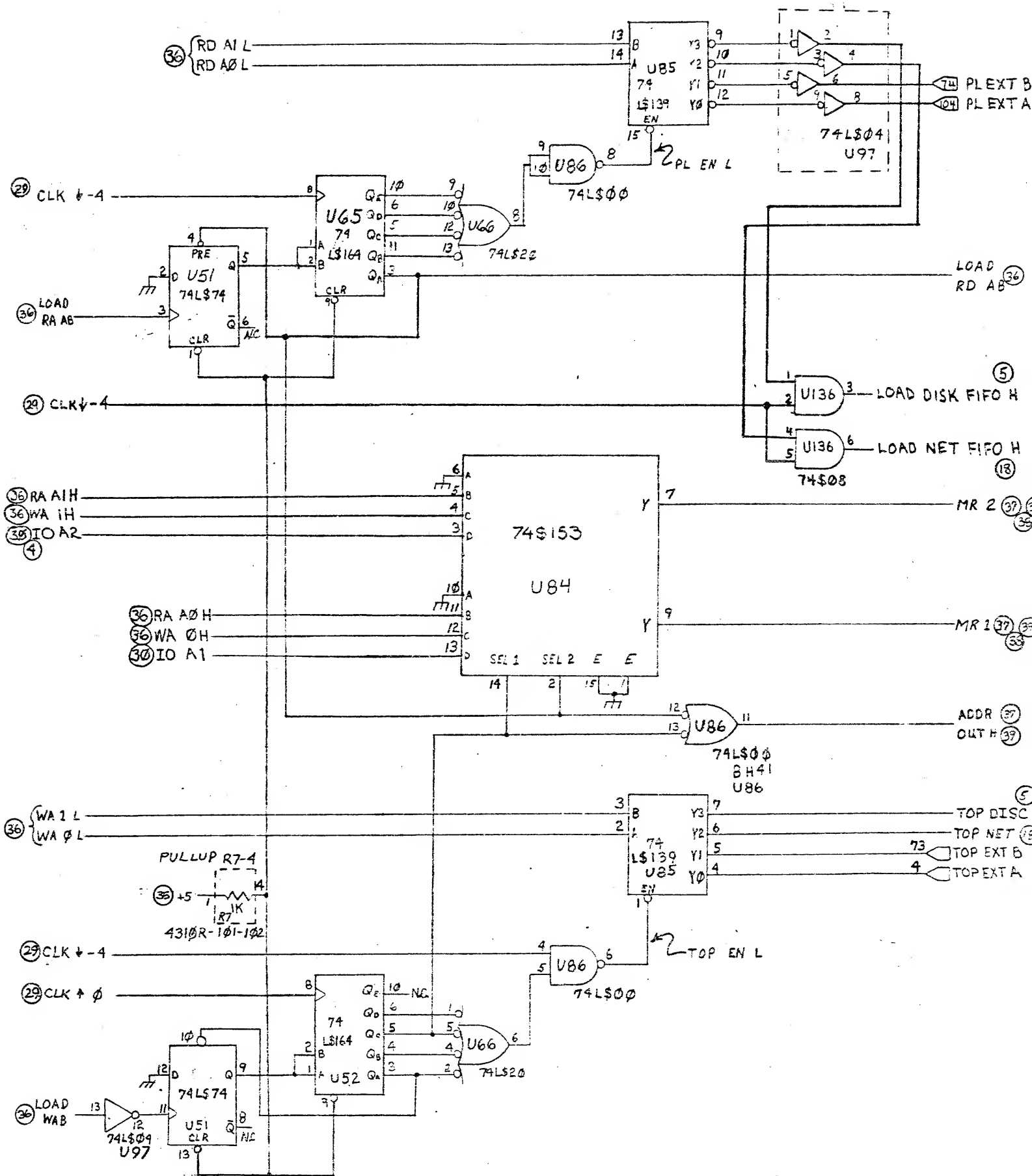
JA

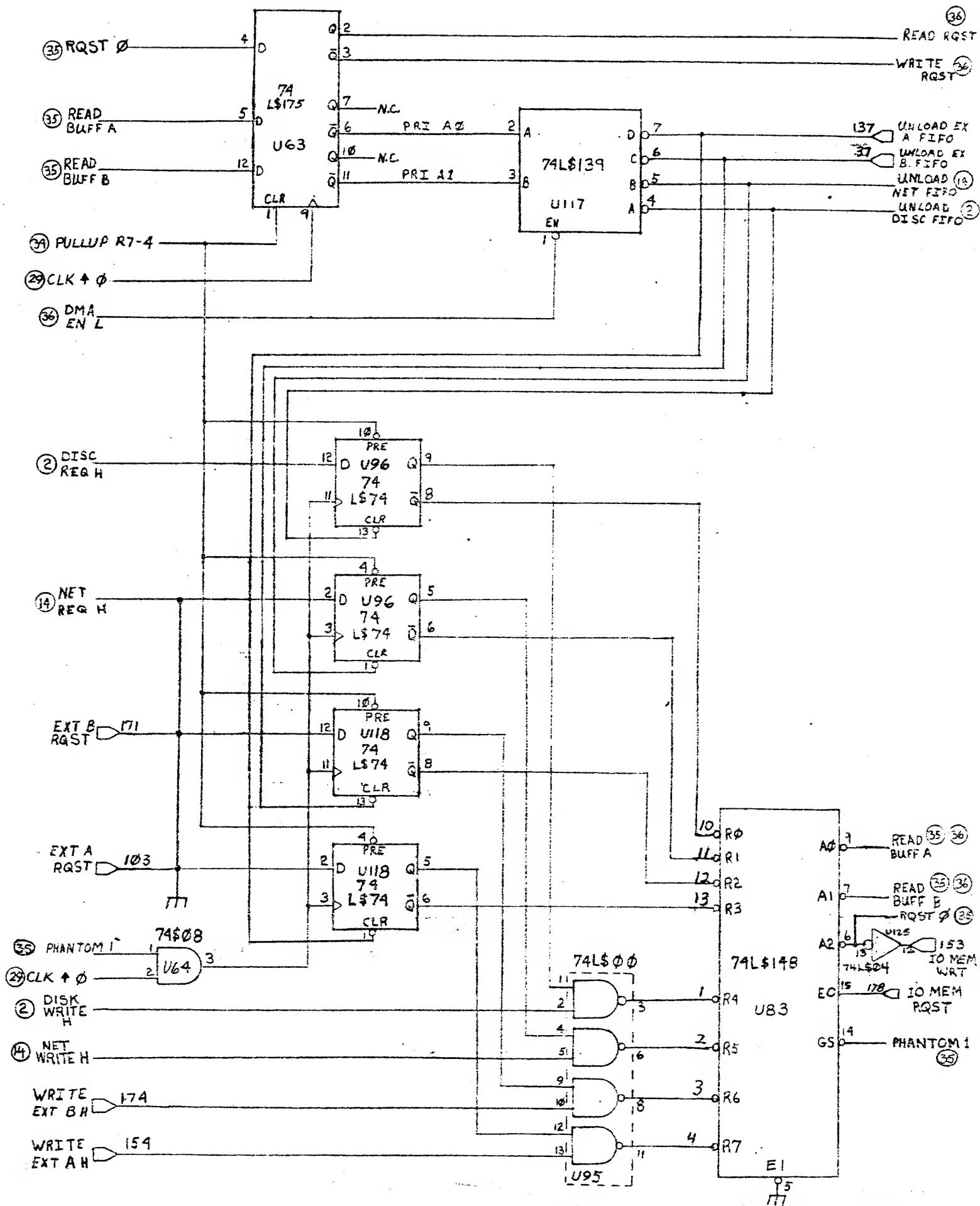
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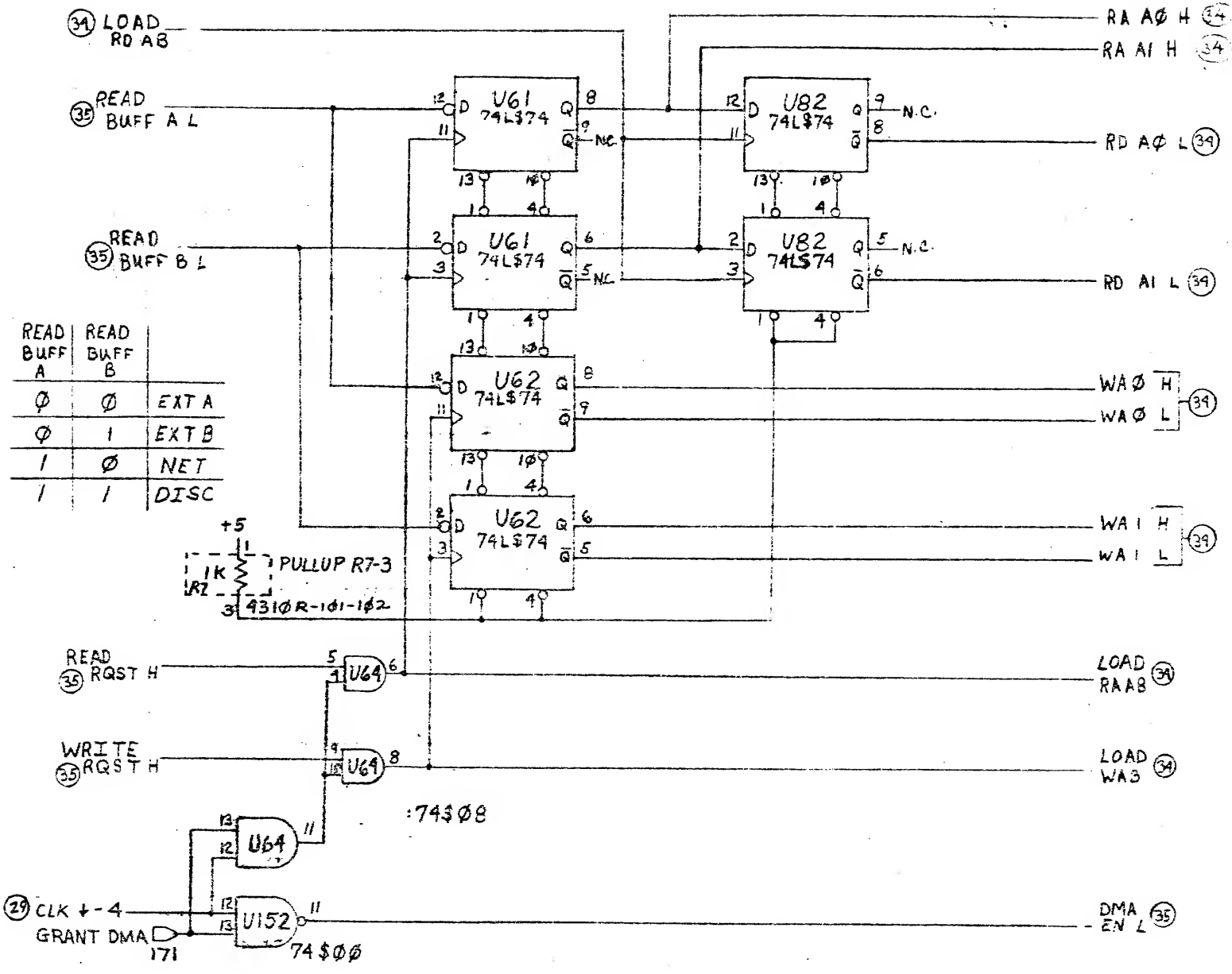


③ LOW CURRENT L

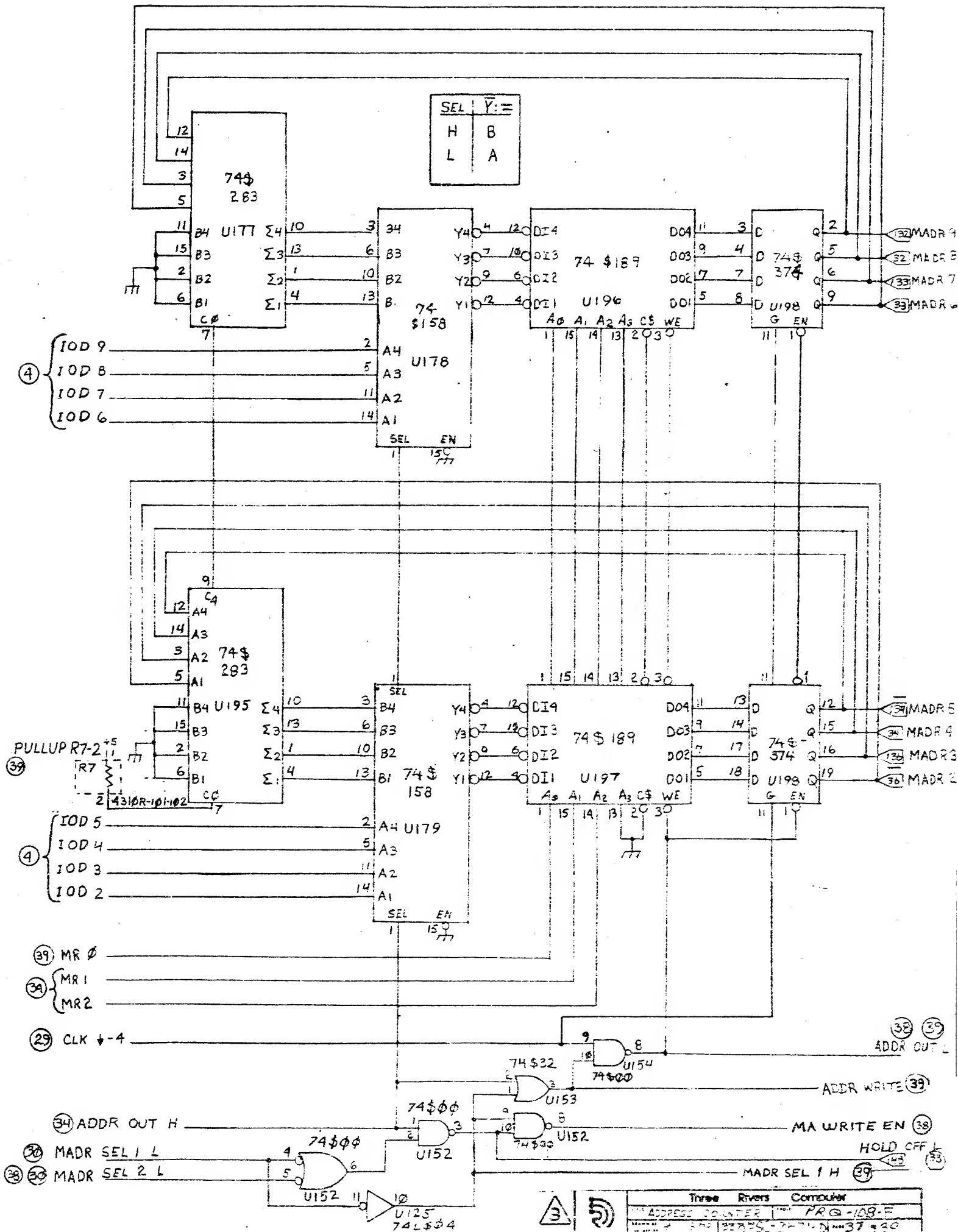


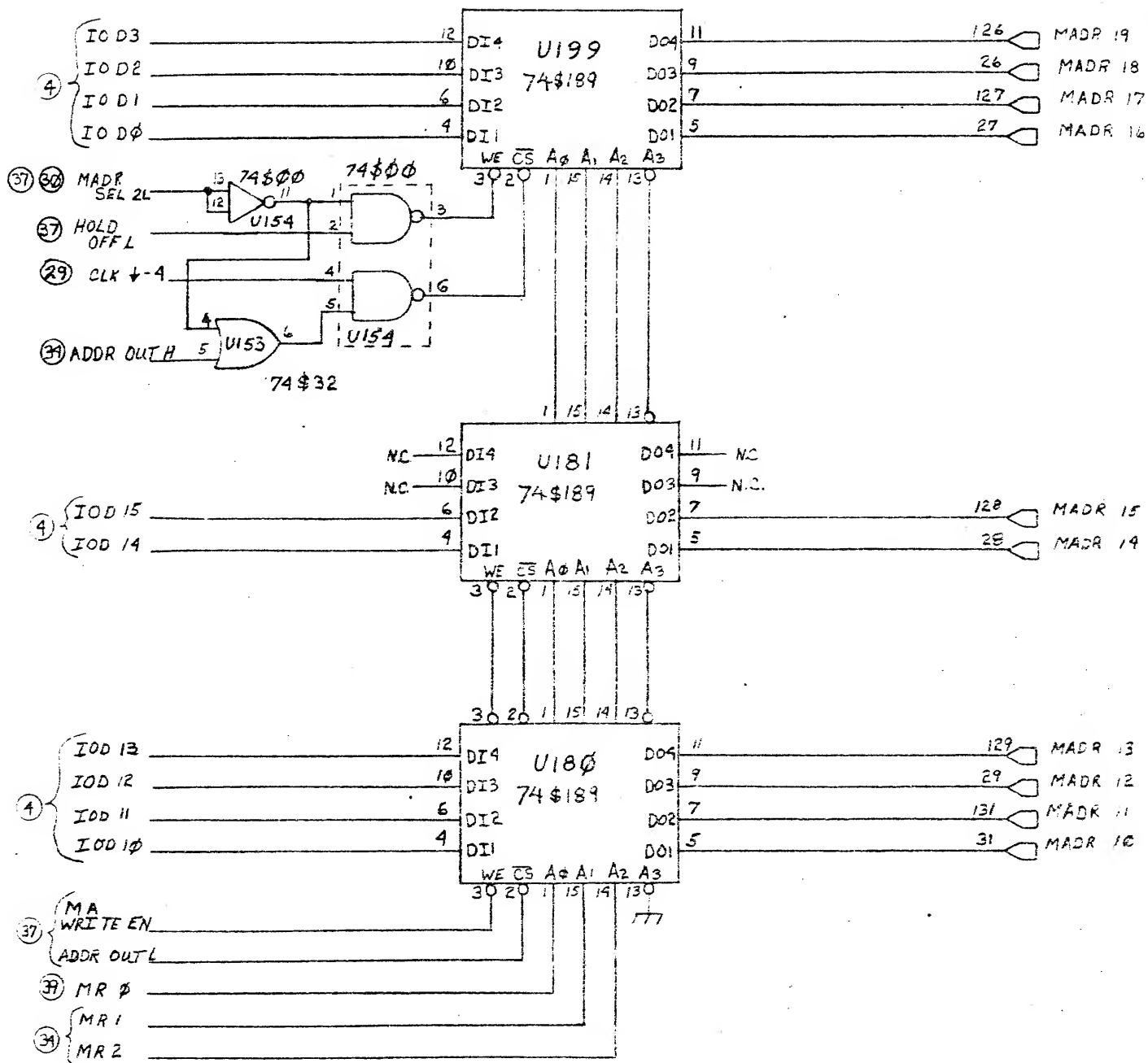


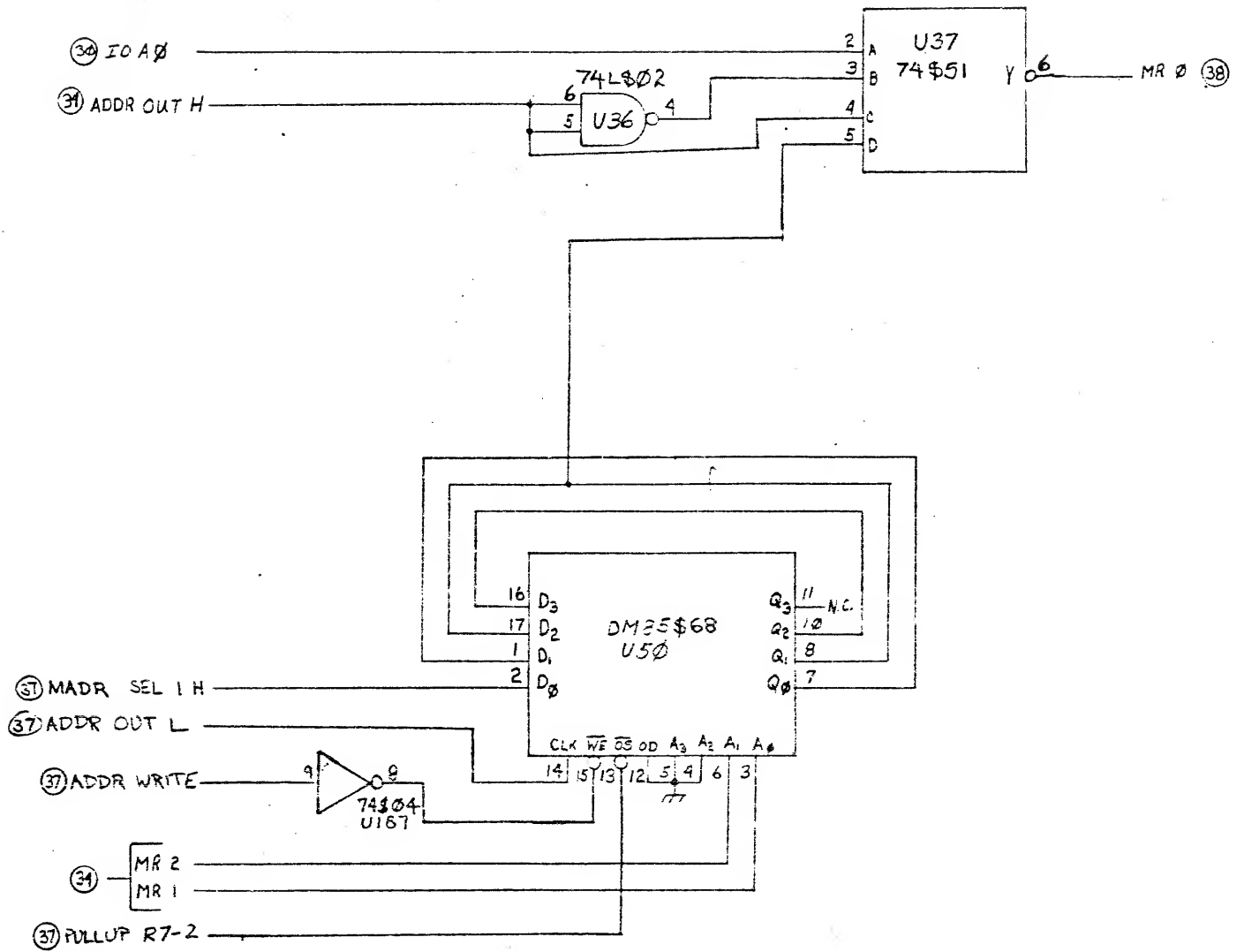




SEL	Y =
H	B
L	A







REV 6 DIV 1/12/82